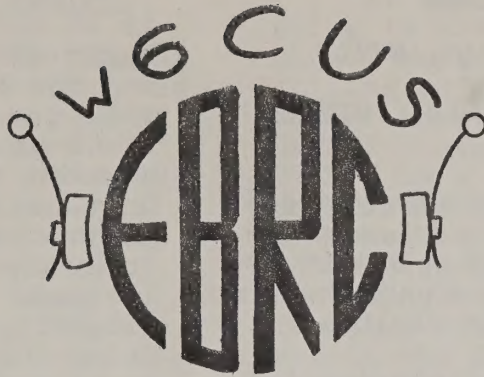


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Jan. 78



# THE BLOWN FUSE

EAST BAY RADIO CLUB, 5601 Doremus Ave., Richmond, CA., 94805

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## OFFICERS:

PRESIDENT:	LYMAN WILTSHIRE,	WB6SMY	524-2690
1st VICE:	STEVE DODGE,	K6ZR	233-5833
2nd VICE:	BOB CONLEY,	WA6DQO	525-5730
3rd VICE:	JOE LEE,	WB6DOB	758-0729
SECRETARY:	JOHN RODOSEVICH,	WA6ZYE	222-2720
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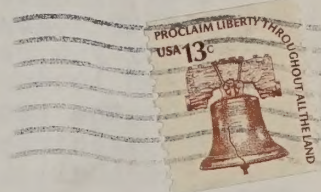
HOME-BREW  
NITE



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Jonathan Hymer, WB6FJC  
East Bay Radio Club  
179 Kendall Road  
Walnut Creek, CA 94595

FIRST CLASS MAIL



Morrie Pool W6CJI  
7315 Eureka  
El Cerrito, CA 94530



## THE DECIBEL

By Herb Friedman, W2ZLF

### HOW TO UNDERSTAND THE DECIBEL WITHOUT HIGHER MATH:

The Decibel frightens many electronic hobbyists, who see it as something dark and mysterious. But if you can grasp Ohm's Law, you should have no trouble understanding the decibel.

In the early days of electronics the decibel was confined almost exclusively to the world of broadcast and telephone engineers. But today the concept is used just about everywhere—and it's inescapable in the areas of audio, ham radio, and Citizens Band radio.

### IT'S JUST A RATIO

Telephone engineers found that the human ear perceives sound-level changes on a proportional, or logarithmic, scale rather than linearly. It is on <sup>(THIS)</sup> characteristic of the ear that the concept of the decibel is based.

For example, let's say you are listening to a hi-fi system when its output power is 10 watts. Logically you'd think that boosting the output to 20 watts would make the sound twice as loud, but it wouldn't. You'd notice only a slight increase in volume. In fact, it would take nearly a ten-fold power increase for your ear to sense the volume! Going a step further, the power would have to be increased 100--from 10 to 1,000 watts---for your ear to notice four times the volume. When a sound increases in intensity you receive an impression of increased loudness approximately equal to the (logarithm) of the ratio of two electrical powers.

The (bel) is the name given the unit that expresses the logarithm of this ratio. In mathematical language, this is written as  $\text{bel} = \log P_1/P_2$ , where  $P_1$  is the larger power and  $P_2$  is the smaller power. In working with the formula you first divide the larger power,  $P_1$ , by the smaller power,  $P_2$ . The number you get is the ratio of the two. Take this number, look up its log in a table of logarithms and you'll have a reading in bels, or effective increase in loudness.

Let's try an example. Assume  $P_1$  is 48 watts and  $P_2$  is 6 watts. Forty-eight divided by 6 is 8, of course, and the logarithm of 8 is 0.9030. Stated another way, the ratio in bels of 48 watts to 6 watts is 0.9030. However, the bel is a fairly large unit, so the (decibel), which is a tenth of a bel and usually referred to by the abbreviation db, is used instead. This modifies the formula slightly, making it  $\text{db} = 10 \log P_1/P_2$ . Using this formula in the previous example would give an answer of 9.030 db, just ten times as great. Whether the answer represents a db loss (-db) or a db gain depends on the circuit you are working with. We'll have more about this later.

Though the db is a (ratio) of two powers, it also can be used to express absolute power, provided we have a reference or zero-db level. (Take a look at microphone specs in an electronics catalog and you'll see the output stated as just -55db, -48db, etc.) In the early days of radio, many different reference levels were established, and there were almost as many different meters used to indicate these levels. By 1939, audio engineers had decided to do something about the lack of standardization. They came up with what is called the VU (volume unit) meter and a standard reference level of 1 milliwatt (.001 watts) in a 600-ohm circuit.

This standard reference is referred to as 0dbm, which is another way of saying 0db is synonymous with 1 milliwatt of power output. A statement that power output is 10dbm is talking about a power 10db more than 1 milliwatt. The VU meter is calibrated so when connected to a 600-ohm circuit and when measuring sine-wave power, 0 VU corresponds to 0dbm and 3 VU corresponds to 3dbm. (The mike referred to with a -55 db output, you see, gives you a fairly weak signal.) We'll show later how greatly a 1 or 2db difference in mike output can affect amplifier power output.

The db is also used to deal with the output power of transmitters, receivers and antennas, since this power is ultimately delivered to a speaker.

(End of part 1. Part 2 will appear next month.)



MEETING MINUTES: DECEMBER 9, 1977

East Bay Radio Club. Meeting at Albany Community Center. Meeting was called to order at 2030 hours. Many thanks were extended to members who have contributed so much to the club during the past year. Especially mentioned were: Dave Bacom, who has moved to South Bay for the winter; Chris and Betty Baldo; Jim Gale; John Francis; and of course, Steve Dodge, who led the club's efforts in 1977. Certificates of Service were presented to Sid Lagorio, always there to help the club; Anna Nicholson, hospitality chairman; Jim Hudon; Jonathan Hymer, (reporter, compiler, editor, and publisher of the Blown Fuse); and Lew and Ray Lewellen. New officers were introduced for 1978, and Steve Dodge passed the gavel on to our new president, Lyman Wiltshire. First Vice President: Steve Dodge. Second Vice President: Bob Conley. Third Vice President: Joe Lee. Secretary: John Rodosevich. Treas.: Les Bodin. Fortunately, Anna Nicholson will continue as hospitality greeter, Jonathan Hymer as the Blown Fuse staff.

Next meeting 13 January 1978, with a movie and talk describing the Guatamalan earthquake's field operations. At the February meeting, we hope to have Ed Peck talk about the legal aspects of antennas and towers. Officers are meeting 27 December to discuss a roster of activities for the year, and a club picnic has been suggested and any suggestions from the membership will be welcome.

There were goodies and more goodies including a fantastic cake created by Betty Baldo's daughter at the Dec. meeting. Door prizes went to Jack Mansfield and Les Brandi. Santa Claus dodge distributed an amazing variety of gifts. The meeting was officially called to a close at 2202 by our new President, Lyman Wiltshire. Thanks to John Polese, who filled in for John Francis in recording these minutes.

--John Rodosevich, Secretary

At our January meeting, we are going to have an interesting slide show. Mark Long, WA4LXC, will be telling us about Guatamalan earthquake relief work that has been done by the DLENTY organization he represents. DLENTY is a nongovernmental, nonprofit charitable relief organization, out of Tennessee. We are particularly interested in the way that they are providing communications between the isolated villages and the relief workers in the States. This show should interest the whole family.

- o o o o -

The \$8.00 dues for 1978 are now payable. They can be paid at the next meeting.

PRESIDENT'S MESSAGE:

A few of the board of Directors were able to meet at the Wiltshire's on Dec. 27, 1977, and discussed the problems of Field Day, Public Service, Ham Radio Classes, and lectures on meeting nights. Mention was made of a pot luck dinner and possibly a picnic in late spring.

Club members will be asked to help on various committees so that no one person will bear the whole load of the project.

A new roster will be prepared, so make sure to sign the roster at the next meeting on January 13. Please PRINT your call sign and the first name of your "ever-lovin'." Also, be sure your phone number is correct.

Please bring in prospective hams and help our "hostess" in greeting our guests. The 1978 guest lecturers should be very interesting and should be a smooth continuance of the fine programs of 1977. HAPPY NEW YEAR!

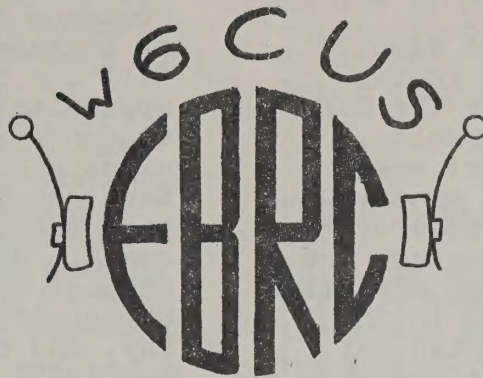
--Lyman Wiltshire, President

Congratulations to Chris Baldo and Jonathan Hymer for getting their General class licenses on 21 Dec. 1977





Feb 28



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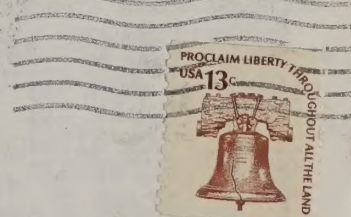
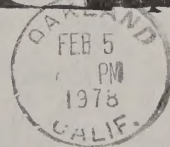
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FIRST CLASS MAIL

HOME-BREW  
NITE



Morrie Pool W6088  
7315 Eureka  
El Cerrito, CA 94530



SIMULATED EMERGENCY TEST:

On 28 January 1978, the East Bay Radio Club participated in the Simulated Emergency Test for the East Bay (Albany, El Cerrito, Berkeley, San Pablo) regions. The test was conducted between the hours of 11:00 a.m. and 2:00 p.m. The purpose of the test was to determine whether the EBRC could put into action an effective emergency communications net in the event that an emergency knocked out regular power and communications channels.

The test was considered a RRS (rip roaring success) by most or all of those involved. The net control was stationed atop Albany Hill, and this location afforded satisfactory contact on simplex with all of the other stations. The other stations were stationed in such places as Herrick Memorial Hospital in Berkeley, the Albany fire and police stations, the Kensington Youth Hut, the Richmond waterfront, and other locations. One station was operating mobile, insuring that all was going well in all locations.

The test proved that, in an emergency, the EBRC can operate an efficient net, thereby providing the public with communications in those first vital moments of an emergency when other communications may be unavailable. Publicity was even provided when KPIX (Ch. 5) came out with its "minicam" and did a location report at the El Cerrito Plaza's parking lot.

Again the test was a great success, and EBRC would like to thank these people for their participation: Team 1, at Albany Police Dept., L.L. Wiltshire, WB6SMY, and Jonathan Hymer, WB6FJC; Team 2, (Net Control) Sid Lagorio, WA6JGZ, and Lester Bodin, W6JKY; Team 3, Charles Henry, W6EJA, Jim Hudon, WB6NTH, Frank Duarte, WB6NTH, and his "harmonic", John; Team 4, (Waterfront), Walter Halsey, WB6MTE, and Steve Dodge, K6ZR; Team 5, (Herrick), Pat Griffin, WA6SCW; Team 6, Don Dunn, K6BJJ, and Len Brandi, W6LWX (at Youth Hut); Team 7, Jim Gale, W6LWX; and "Brownie" as Team 8, operating mobile (WA6PKF).

--J.D. Hymer, WB6FJC

NEW NOVICE AND GENERAL CLASSES:

EBRC sponsored classes will commence February 20, (Monday Eve at Berkeley Yacht Club. Classes will run from 7:30 to 9:30 PM for approximately twelve weeks. Some students may finish their Novice class and pass tests in less time. Each can proceed at his/her own pace and pass the code test whenever ready. Berkeley Yacht Club is reached by going to the foot of University Ave. all the way to the Bay, and by turning right at HIS LORDSHIPS restaurant and by going to the end of the road. Tell your friends, and come yourself if one of these classes can help you advance in amateur grade.

- o o o o -

YACHTMAN'S AMATEUR RADIO CLUB:

A new organization tentatively known as the Yachtsman's Amateur Radio Club (YARC) had a first exploratory meeting at San Francisco Yacht Club in Belvedere. This initial formation committee was enthusiastic about the prospects for this club to meet a growing need in getting specific information about the use of amateur radio for yachtsmen--practical do-it-type articles, and also directory information about who is cruising where, frequencies, nets, etc. If you are a boater, get in touch with Steve Dodge, K6ZR, for more information. Attending the first meeting were: Steve Dodge, K6ZR; Joe Knowles, K6KEW, (Port Captain, SFYC); Pete Woodward, WD6AAT, (RYC); Pete DuMont, WD6BIZ, (Metro. YC); Kun Chin, WD6CSJ, (Sailor's Workshop Oakland). A formal formation meeting is planned for late February.

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Our thanks to Don Dunn, K6BJJ, for the contribution to EBRC of proceeds from sale of a surplus receiver in amount of \$60.00. This is a most welcome addition to the club's treasury.

Due to delays in compilation, the EBRC roster originally scheduled to be published this month will be instead be published at a later date.



13 JANUARY 1978

Meeting was called to order at 2020 by President Lyman Wiltshire. Twenty-seven attended the Friday 13th meeting. Lyman pointed out an announcement in the December QST about the Simulated Emergency Test (SET). Steve Dodge made an announcement about ham tickets. Monday nights were proposed for classes. Chuck Breeding has been replaced by a new area SCM--Bob Vallio, WR6RGG/N6KB of Castro Valley--Sid Lagorio has his address and LL.

There are no new developments on storage of the club equipment. The membership roster is being updated to include YL names. Equipment theft was discussed. It was suggested that describing one's equipment over the air could lead to theft. Local police departments will etch serial nos. on equipment. Clyde Brown, WA6TKF, will bring an etching tool to the next meeting if you would like to bring anything in to be marked.

Clyde Brown talked about mobile emergency capabilities of the membership and prompted a point-to-point 2 meter mobile communications drill for the morning of the 28th at 1000 hours in the El Cerrito parking lot near the BART tracks. John Polese, WA6QIN, won the on time door prize. Ivan Sturman (Junk Box), Dick Gray (Soldering iron) Larry Moore (Wire cutters), and Bob Conley (110 VAC outlet multiplier) won the raffle prizes. The meeting's business was concluded at 2020.

Sid Lagorio introduced Mark Long, WA4LXC, and Bill Gross from a Tennessee organization known as PLENTY. Mark and Bill showed slides describing relief efforts following the recent Guatemalan earthquake. PLENTY provided food, shelter, communications equipment (Ham and CB), and personnel for medical, carpentry, and engineering. Slides of work in other areas included Dacca, Bangladesh; La Paz, Mexico; and the Bronx in New York City. A very interesting presentation.

### FEBRUARY MEETING:

This month, we will be fortunate to hear from two of our technically talented members on two timely subjects. Hal Yost, K6MY will introduce us to Grid Dip oscillators and show us how to check our antennas for resonance

and a few other handy tips. Our other speaker, Len Brandi, W6LWX, will show us how to put together a 12 volt power supply that could power your 2-meter brick or a small linear in the shack. Bring your Questions!!

- o o o o -

### THE DECIBEL (PART 2) By Herb Friedman

You can solve most db problems without bothering with logs if you use the table shown with this article. (At the end of the series.) Let's work a problem to see how it's done. One day you decide your 10-watt hi-fi amplifier can be souped up a little. You change a few tubes, alter the circuit slightly and, with the same input as before, the amplifier now delivers 20 watts. The ratio of the power change ( $P1/P2$ ) is 20/10 or 2. Look down the column in the table headed (Power Ratio) until you reach 1.99 (this is close enough to 2 for our purposes). In the left column you see 3db. Therefore, the increase in output power from 10 to 20 watts amounts to a 3db improvement. If you had started with a 20-watt amplifier and reduced the output to 10 watts, the power ratio would still be 2, but now the 3db change represents a loss. It would be expressed as -3db.

Let's try a more difficult problem. Assume you are using a public address amplifier that is capable of delivering 25 watts of power. Your microphone, which has a -57db output level reference to 1 mw, drives the amplifier to only 10 watts output when the gain control is set to maximum. You decide to purchase a new microphone. What should its output be to get the amplifier to deliver a full 25 watts? First, we find the ratio of the power we WANT to the power we WERE GETTING, which is 25 watts 10 watts, or 2.5. From the table we find that a power ratio of 2.5 equals 4db. Therefore, we need a microphone with an output 4db greater than -57db. The final answer, of course, is a microphone with an output of -53db (subtracting 4db from -57db.)

At this point you may wonder about intermediate values above 10db. In the table the values after 10db are 20, 30, 40, 50, etc. How do you determine the power ratio of 16db? It's simple. Split 16db into 10db and 6db, find the corresponding power ratios, and then MULTIPLY. (Part 3 will appear next month.)



## NOTES FROM HR REPORT:

FCC'S SAROC MEDIA MEETING was very well received, with over 130 attending and more than two dozen publications and organizations represented. FCC presentations took up the morning, and Amateurs spoke in the afternoon. FCC Personal Radio Division Chief John Johnston, W3BE, and Ney Landry, K6RI, Director of FCC West Coast enforcement, reviewed previous media meetings, FCC operations, and the role of FCC's field offices.

Amateur-Band Spectrum Management was the afternoon lead-off subject, with AA6DD discussing the new (but stayed) 2-meter repeater sub-band, its effect on existing SSB/CW operations, and the need for flexible rules to accommodate new techniques as they are introduced. N6TK and his XYL, WB6SXG, both Amateur Radio instructors at Cerritos College, then delved extensively into the problems of teaching and Licensing Amateurs. He discussed "partial" exam credit (such credit for CW looks likely soon) and giving FCC commercial license holders credit toward an Amateur license, while she urged reinstatement of "bulk mailed" Novice exams and delegation of more licensing authority to qualified instructors. WB6SXG even suggested all FCC Field Offices get HR Report, to keep them better informed on Washington FCC news!

Necessity For More Repeater and remote base deregulation was then covered by WB6JPI of the Southern California Repeater Association, who noted the Amateur's tradition of innovation was being stifled by FCC regulations. He feels the Commission often over-reacts to problems and confuses issues by combining various divergent Amateur petitions into a single Notice of Proposed Rule Making. FCC could make use of Amateur's diverse talents, too, in intruder chasing, TVI resolution, and other similar ideas.

Audience Participation was extensive, with many ideas endorsed or rejected--sometimes heatedly--from the floor. The FCC people seemed well pleased, with further such regional meetings--perhaps at Dayton--a distinct possibility.

ARMA MET TWICE during SAROC, the first time at an open meeting with several invited speakers. ARRL's Code of Ethics was the principal topic, with an SCRA representative making the important point that transmitter misuse isn't really a manufacturer's problem, and that point-of-sale guidance could direct potential abusers into becoming legitimate Amateurs.

ARRL's Dick Baldwin pointed out that ARRL and ARMA have the same goals but ARRL members want the problem curbed. Dick Cowan of CQ then outlined his opposition to the Code, while Rick Cooper of Communications Attorney Service stayed home with flu.

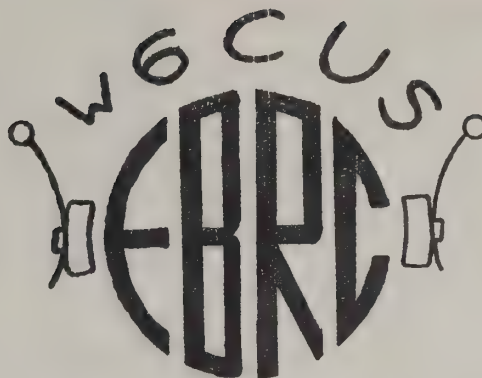
At ARMA's Second (closed) meeting Saturday the members agreed to try working with the League to resolve their disagreements with the Code of Ethics' implementation.

THE ROSE PARADE in Pasadena New Year's Day was coordinated by Amateur Radio. 71 Amateurs from the South Pasadena and San Gabriel Amateur Radio Clubs plus RACES groups used 1 $\frac{1}{2}$ , 2 and 6 meters to keep the spectacle moving smoothly, garnering some excellent Amateur Radio media PR in the process. (Thanks Westlink).

"CITIZENS RADIO LOBBY," a Seattle based pressure group, was very visible at the Consumer Electronics Show in Las Vegas. The goal of the organization is more 11-meter frequencies, which they would achieve by extending the present lower band edge down to 26.505 MHz for AM operation and introducing a special license for SSB with VFO privilege, good for 27.515-27.905 MHz. Of particular interest to Amateurs is the remainder of that segment, 27.915 to 27.995, which they'd share with Amateurs using both SSB and CW.

WINTER CONSUMER ELECTRONICS Show in Las Vegas at the same time as SAROC was very long on home entertainment (HiFi, pinball, TV games, and micro-processors) but only the bigger (and generally healthier) CB manufacturers were there. Along with the ARRL's booth, which was urging CB dealers move up to Amateur Radio, scanners and some interesting new general coverage short wave receivers were the products of most interest to Amateurs.





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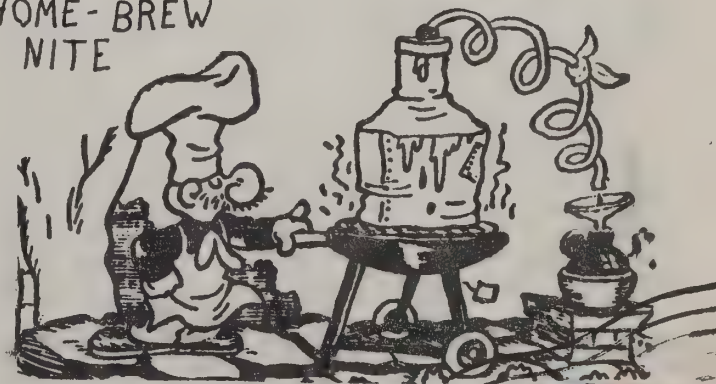


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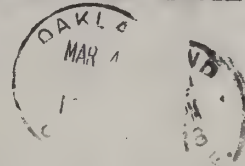
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## HOME-BREW NITE



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East Bay Radio Club  
179 Kendall Road  
Walnut Creek, CA 94595

FIRST CLASS MAIL



W6CLS  
179 KENDALL RD  
WALNUT CREEK, CA 94595



## ROSTER ADDITIONS:

The following new members should be added to last month's roster:

Ahlberg, A.H.  
71 Kingston Rd.  
Kensington, CA 94707

Brown, Clyde WA6PKF  
660 Ensinada St.  
Berkeley, CA 94707

Calhoun, Dorothy, L.  
Calhoun, Grant G.  
8548 Betty Lane  
El Cerrito, CA 94530

Kanstein, Leal K6LK  
759 Keeler  
Berkeley, CA 94708

Russell, David  
2 Vine Lane  
Berkeley, CA 94708

Ferguson, Y.C.  
Francis, John H.  
Gale, James E & Ilene  
Gray, Richard  
Hale, Wayne  
Henry, Charles P.  
Hirth, Anton  
Holton, Bill  
Joyce, Jack  
Lee, Dennis  
Lewis, Ned  
Lewis, W.A.  
Lovejoy, Vince  
MacKerricher, Bruce  
Marble, Carey  
Matsuoka, Ernest M.  
Nicholson, Anna M.  
Percival, David  
Polese, John  
Rodosevich, John  
Sill, Fred  
Sturman, Ivan  
Thomas, John  
Thorne, Gary, Marty & Nina  
Woodworth, Robert

## New calls:

Congratulations to these new hams:

Ravi Narasimhan WD6FQA  
Muriel Hunter WD6PRO  
Bill Fisher WD6FRP  
Micky Khaler WD6FYF

This list may not be the most recent, so if you have paid and your name is still up there, please pardon me.

\*\*\*\*\*

## NOTES FROM HR REPORT:

## THE TREASURER SPEAKETH or SHAME, SHAME!

The treasurer has made a point of informing me that the following people have not paid their dues, even though they are still on the mailing list. If you are one of the unfortunate souls that is listed below, please settle up with Les Bodin ("ol' money-bags") at the next meeting, or call 632-3707. Remember, your dues keep newsletters like this coming, so if you still want to receive it, please pay now. (Even if you don't want this paper, pay anyway.....) Use EBRC's easy payment plan: 100% down, nothing to pay. Here are the evil people:

Annas, Peter T.  
Bacom, Bernie  
Brandi, Leonard  
Chapman, John  
Clark, George  
DeMars, Mike  
DuMont, R.P.

144.5-145.5 MHz WILL BE the new 2-meter repeater sub-band, and WR callsigns will become extinct as a result of Commission action on the various petitions for reconsideration on Docket 21033 Wednesday. In addition Technicians will also receive the rest of 2 meters, while repeaters will not be permitted use of 220.0-220.5, 431-433, or 435-438 MHz to permit weak signal and satellite communications on those bands. The

FCC'S AMATEUR CALLSIGN structure has been completely overhauled and a new policy, effective March 24, has just been released. No special callsigns or special events callsigns will be issued, and licenses for personal secondary stations will no longer be renewed. Call areas will remain and will determine the prefix of a callsign issued to an address in that area, but an individual can retain his callsign indefinitely if he wishes even if his permanent station



## FUTURE MEETINGS:

Mr. Doug Murray, W6HVN, of M-tron the scheduled speaker for the May 21st meeting.

On April 14, Mr. Bill Stevens, W6ZM, Director of the Pacific Division of ARRL and Dr. Bob Smithwick, W6JZU, Vice Director of the Pacific Division of ARRL will discuss the latest plans of ARRL.

## MEETING MINUTES:

Minutes of the EBRC meeting of March 10, 1978:

The club was called to order at approximately 7:40p.m. with 35 people present (more showed up later). The minutes of the previous meeting were approved and Les Bodin gave the treasurer's report. New members and visitors were introduced. Mr. Ravi Narasimhan has his Novice call sign, WD6FQA, congrats. Chris Baldo, WB6WNZ, proudly announced that Betty Baldo has her General ticket now with the call sign WB60GE. Congratulations Betty. Chris has also gotten his Advanced and congratulations are also in order for him. You folks are the second wife and husband team in our club. Chris was so proud that he bought the doughnuts for the club, and somehow they tasted better than usual.

Len Brandi, W6LWX, completed his presentation on "A 12 Volt Power Supply for Two Meter Rigs." This is an excellent "home brew" project.

Steve Dodge, K6ZR, gave a fine talk on antenna tuners which helped to pinpoint some faults of our own home projects.

Some important points may not have been included in this report but please see that they are added at the next meeting as this is all your president could recall. Meeting closed at 9:45p.m., Thanks to Anna Nicholson and Rachel Lewellen our coffee bar was cleaned and packed for the next meeting. 73's.

--L. L. Wiltshire, acting Secretary.

PLEASE NOTE THAT ALL FUTURE EBRC MEETINGS WILL BEGIN AT 7:30 PM SO THAT WE WILL NOT HAVE TO END THE MEETINGS SO ABRUPTLY. PLEASE MAKE AN EFFORT TO BE THERE EARLY SO THAT WE CAN GET STARTED ON TIME.

## HRR NOTES (CONTINUED FROM PAGE 2):

Location changes call area.

2x1 and Nx3 callsigns will soon be heard under the new policy, which divides callsigns into four "groups." Group A includes 1x2, 2x1, and 2x2 (AA-AL prefixes), available to Extras only. Group B includes 2x2s other than AA-AL, and will be available to Advanced Class license holders. Group C is 1x3 callsigns, available to Generals and Technicians, while Group D is 2x3 for Novices. In Group A 2x1s will be the first calls issued, while Nx3s will be the initial Group C issue. Also changed will be callsigns for many U.S. islands.

The New Callsign Assignment Plan will go into effect in steps. The first--Phase 1--beginning March 24. Under Phase 1 any newly licensed Amateur will receive a callsign determined by the new system, and any present licensee who upgrades may, if he wishes, receive a new callsign appropriate to his new status. For example, a newly licensed Amateur who starts out as a General will receive an Nx3 callsign, while a Novice with a 2x3 who upgrades to Advanced can trade it in for a 2x2 if he wishes. Requests are made by specifying on line 13A of Form 610. "Please assign a Group \_\_ callsign" when filing the application. Extras are also eligible in Phase 1, of course, and those who've received 2x2 callsigns can request a change to a 2x1 before Oct. 1.

Future Phases will permit Advanced and later General and Technician licensees to change their calls as well.

AMATEUR LINEAR AMPLIFIERS cannot be sold after April 28, the effective date of FCC's Report and Order on Docket 21116 (the 10-meter amplifier ban) unless they've received approval from FCC's Laurel labs. Samples of each current model linear must be submitted and okayed under the new type-acceptance technical-specs (excepting 10-meter coverage) if those in the pipeline are to stay on the market and (be) sold after the effective date. (MORE NOTES ON NEXT PAGE.)

Congratulations to Grant Calhoun, who recently received the distinctive call N6XB. We hope to hear him on the air soon with his new call.

## HRR NOTES, (CONTINUED):

20-KHZ CHANNEL SPACING for the 2-meter FM band has been adopted by the Western Washington Amateur Relay Association and by the Oregon Region Relay Council. The far-reaching proposal is also being considered by British Columbia and Northern California. As worked out by the Washington group, present even-numbered frequencies such as 146.76 and 146.82 would remain unchanged, while odd-numbered channels such as 146.73 and 146.79 would move down 10KHz to open 146.74, 146.80, and so on.

20 KHz Spacing Avoids much of the adjacent channel difficulty that increased use of 15-kHz splits has brought on, the proponents suggest, and though such a revolutionary change would cause a good deal of short term inconvenience they believe the long term benefits would amply justify it. They've even worked out modifications for several popular radios such as the IC-230 and IC-22S to accommodate the new band plan.

- o o o o -

### WANT ADS:

WANTED: Schematic and/or manual for Heath VF-1 VFO. Ned Lewis, WB6LIM, 849-1116.

FOR SALE: Johnson Viking II transmitter and companion VFO. Works 300 watts AM/CW. Also includes microphone, antenna changeover relay, and two spare finals. \$115 takes it all away. Jonathan Hymer, 935-5640.

- o o o o -

THE DECIBEL By HERB FRIEDMAN W2ZLF

### MICROPHONES

If everything in electronics were rated in db with the same reference level, db problems would not be difficult. As a general rule, most equipment IS rated in terms of the dbm reference level. The problem-children, however, are microphones, since their outputs may refer to different reference levels.

Some microphone output ratings are given in reference to 1 mw (0dbm). Some are rated in dbv (1 volt), and some are in reference to 1 millivolt. Some, judging from performance, have heaven-knows-what for a reference level. But, regardless of the reference level, the important thing to bear in mind is that since the db is just a ratio, it doesn't matter what reference is used as long as you consistently use the same one. If a microphone with a -57dbm rating driving an amplifier's output to 1 watt is replaced with another microphone with a -54dbm output level (a 3db difference or a power ratio of 2), the amplifier will now deliver 2 watts.

If a microphone having a -60dbv rating driving an amplifier to 10 watts is replaced with a microphone having a -57dbv rating (again a 3db difference), other words, the power ratio always will be the same, regardless of the reference used, so long as both microphones have the SAME reference.

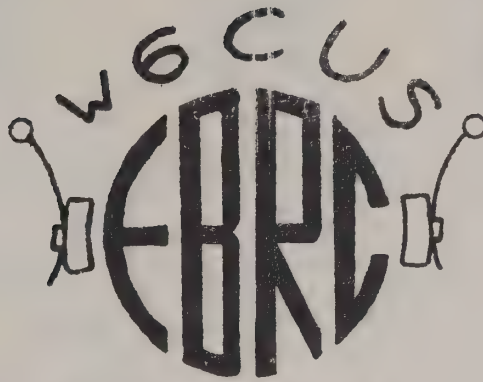
### AMATEUR RADIO

Most newcomers to amateur radio say the more power the better--if 100 watts output is good, 1 kilowatt is likely to be ten times better. This is not always true. For example, let's say the station you're listening to is running a "full gallon" (1 kilowatt) and you read him at 20db over S-9. (The S-meter reflects power, and each S unit nominally equals 6db.) In the table you find that 20db is equivalent to a power ratio of 100. Now, by dividing the original 1,000 watts by 100 you get 10 watts. Tell the other station to cut back his power to 10 watts. You will now receive him at S-9, still a powerful signal, with a considerable saving in power and tube life. That extra 20db was being wasted.

(Ed. note: This ends the series on the decibel. The original article has been edited for serial use in the OWN Fuse. In a future issue the db table referred to in the article will be published.)

REMEMBER, ALL FUTURE MEETINGS WILL START AT 7:30 P.M. COME EARLY!!!





# THE BLOWN FUSE

EAST BAY RADIO CLUB, 5601 Doremus Ave., Richmond, CA., 94805

The EAST BAY RADIO CLUB meets the second Friday of each month at the  
Albany Community Center, 1123 8th St., Albany, Ca., at 8 P.M.

## OFFICERS:

PRESIDENT:	LYMAN WILTSHIRE.	WB6SMY	524-2690
1st VICE:	STEVE DODGE.	K6ZR	233-5833
2nd VICE:	BOB CONLEY.	WA6DQO	525-5730
3rd VICE:	JOE LEE.	WB6DOB	758-0729
SECRETARY:	JOHN RODOSEVICH.	WA6ZYE	222-2720
TREASURER:	LES BODIN.	W6JKY	632-3707
EDITOR :	JONATHAN HYMER.	WB6FJC	935-5640

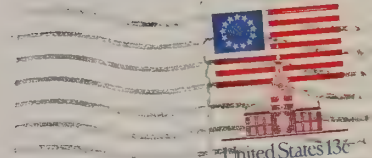
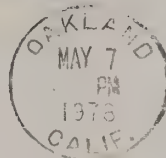
Want to put something in the paper?  
The Blown Fuse always welcomes art-  
icles, personals, want-ads, etc.  
Please send your articles to 179  
Kendall Road, Walnut Creek, CA  
94595, or, if they're short, phone  
935-5640 after 4. Deadline is  
two weeks before meeting date.  
Come on!!! Get it in!!!

## HOME-BREW NITE



Jonathan Hymer, WB6FJC  
East Bay Radio Club  
179 Kendall Road  
Walnut Creek, CA 94595

FIRST CLASS MAIL



Maria Pool  
7315 Eureka  
El Cerrito, CA 94530



NOTES FROM HR REPORT:

SERIOUS QUESTIONS ABOUT AUTO-  
patches and the apparent increase of  
business-type communications on the  
Amateur bands are raised in an April  
5 FCC release, which likened "tele-  
phone interconnection at Amateur  
stations" with "the situation in the  
Personal and Business Radio Services."  
Though there were some text problems  
with the release as issued--the  
Personal Radio Division has requested  
that it be corrected and re-released--  
it strongly points up growing Commission  
concern with this area of Amateur Radio.

Autopatches and Reverse Auto-  
patches in particular were discussed  
at some length in the FCC document.  
For example, it pointed out that the  
regulations require a control operator  
be on duty whenever autopatching or  
reverse autopatching occurs, effective-  
ly prohibiting autopatch use when a  
repeater is operating in "automatic  
control." It further stated that "all  
calls not initiated at an Amateur  
station had to be screened by the con-  
trol operator before being placed on  
the air." Though a revised release is  
to be issued shortly, it's obvious  
that autopatch operators and users  
should start now to tighten up their  
operations.

THE FCC'S COMPUTER has mistakenly  
issued duplicate licenses to approx-  
imately 3000 new amateurs. Some of  
those who received the dual licenses  
received two call signs; others  
received two licenses with the same  
call letters. To end the confusion,  
the FCC has ruled that amateurs with  
two tickets are to use the license  
with the later date, and set aside the  
one with the earlier date until informed  
by the FCC what is to be done about it.

Two Sets Of "Doubles" were mailed  
out. The first sets are dated February  
28 and March 3, the second pairs are  
dated March 17 and 21. The FCC ex-  
pects to be in touch by letter with all  
amateurs who received two licenses.  
The letters should be mailed the week  
of April 28, and will contain instruct-  
ions regarding the proper disposition  
of the extra license.

THE FCC IS RECEIVING REQUESTS  
for new call signs from amateurs not  
yet eligible for new calls. The  
calls are now available only to Ex-  
as who request them, other licensees who  
are upgrading to a higher class, and  
those applying for their first license.  
The paperwork involved in returning the  
request of all others is slowing the  
FCC's job considerably.

Note Also That No Exceptions  
will be made to the FCC's rule pro-  
hibiting the issuance of special call  
signs. All requests for special call  
signs are being denied, including those  
of amateurs interested in an old call  
they might have held in the past.

HY-GAIN HAS BEEN PURCHASED BY  
Telex, according to word just released.  
Hy-Gain, which had been declared bank-  
rupt recently in Federal Court, plans  
to be back in production May 1 as a  
division of the Telex Corporation.  
The deal has already been approved by  
the four banks to which Hy-Gain  
reportedly owed \$23 million, and now  
all that is needed is the signature of  
the bankruptcy court judge. No pro-  
blems are anticipated in getting that  
signature.

Hy-Gain's product lines will  
include amateur antennas and electronic  
marine antennas and gear, government  
and commercial antennas, and CB antenna  
Notably lacking will be the CB electron-  
ics that caused so many of their  
problems in recent months.

TV GAME DEVICES CAUSE SERIOUS  
interference, according to a recent  
bulletin issued by the Department of  
Commerce, which warns that rf from the  
games is radiated out through TV an-  
tennas or into cable TV leads. Scanner  
are also a source of RFI, according  
to FCC reports. Several now on the  
market are being reviewed.

THE 3-CM AMATEUR BAND IS THREAT-  
ened by "Amateur Radio" manufacturers  
who're planning to make and market  
police-radar jammers under the A  
"Amateur Radio" label. The just  
March issue of Communications Ret  
describing one such unit being sold as  
a "radar calibrator," quotes a company  
official as saying they may designate  
their jammer as Amateur (continued)



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<b>AMECO:</b>	<b>AMELCO</b>	<b>DENTRON</b>	<b>DRAKE</b>	<b>HY-GAIN</b>	<b>KE ELECT.</b>
BOOKS	SWR meter 14.95	MT2000A 199.	MN2000 250.	205 16.95	MEMO512 124.
PLF-2 49.95		16010AT 129.	MS4 33.	208 19.95	UB-1 11.95
PT-2 69.95	<b>BENCHER</b>	JR MON 79.	MS7 33.	214 26.95	CW-70 3.95
	BY-1 39.95	W2 99.	WH7 89.	TH3JR 144.50	UB80/40 39.95
<b>ATLAS RADIO</b>	BY-2 49.95		W4 79.	HYQUAD 219.95	T-7 24.95
350XL 1195.		<b>DRAKE</b>	1525EM 49.	DB1015 149.95	
350PS 229.	<b>CDR</b>	DSR-2 3200.		333 289.95	<b>KLM</b>
305VFO 155.	CD-44 154.95	R-4C 699.	<b>GOLDLINE</b>	105BA 119.95	3.8-1 495.
110SC 135.	H-3 194.95	4NB 74.	KW DL 29.	155BA 169.95	3.8-4 2995.
DD6XL 229.	T-X 349.95	TR-7 886.		205BA 289.95	6-12-8 1290.
DMK-XL 65.		DR-7 186.	<b>HUSTLER</b>	204BA 189.95	6-30-15 1679.
MT-1 27.	<b>CURTIS</b>	TR/DR7 1072.	4BTV 99.	204M5 99.95	7-7.3-4 495.
DL-200 9.	EK-430 124.95	AUX-7 38.	MO-1 22.	12AVQ 37.95	7.2-1 99.
210X 679.	IK-440 224.95	RRM-7 5.	MO-2 22.	14AVQ 67.00	10-30-7 389.
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215X/NB 719.		FA-7 24.	RM-15 6.95	TH6DXX 249.95	20M 6EL 449.
220CS 149.	<b>CUSHCRAFT</b>	NB-7 74.	RM-15S 12.95	TH2MK3 139.95	18-30-6 239.
200PS 100.	ARX-2 32.95	FILTERS ea 49.	RM-20 7.30	402BA 199.95	15M-6EL 269.
DD6-C 229.	A1441OT 34.95	T4XC 699.	RM-20S 13.00		15M-6LD 189.
VX-5 49.	A4322OT 49.95	TR-33C 229.	RM-40 13.20	<b>ICOM</b>	10M-5EL 129.
PC-120 52.	A14TMB 15.95	UV3 144 595.	RM-40S 15.50	IC30A 399.	10M-6EL 159.
DMK 48.		UV3 DUO 695.	RM-75 15.50	IC202 259.	144-148/11EL
	<b>DENTRON</b>	UV3 TRI 795.	RM-75S 30.00	IC211 749.	39.95
<b>B &amp; W</b>	DTR-1 TBA	AC4 150.	RM-80 15.95	IC215 229.	VHF/UHF AMPL.
592 16.50	DTR2000 1099.	PS3 89.	RM-80S 30.40	IC245 499.	ALSO
375 18.95	MLA2500 899.	DC4 160.		IC245SB 599.	<b>LARSEN</b>
376 18.95	MLA1200 399.	PS7 166.	<b>HY-GAIN</b>	IC502 259.	MM1M150 38.45
595 19.75	AC1200 159.	L4B 995.	18HT 279.95		TMLM150 37.90
334A 175.	DC1200 199.	MN4C 165.	18V 24.95	<b>KE ELECT.</b>	LM150K 30.20
374 215.	MT3000A 349.	MN7 165.	203 12.95	SQ AUTO 56.95	MM1MQ 16.65

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108RA 79.95	404C 30.60	540 TCVR 699.	TM-370C 4716.00	CQ
109RA 149 95		544 DIG. 869.		73
	SST	570 C-21 299.	ALSO WE CARRY:	HR
NYE	T-1 29.95	574 DIG 399.		HR HORIZONS
PATCH	T-2 49.95		ARRL PUBLICATIONS	WORLD RADIO NEWS
CPO	T-3 19.95	TRI-EX	RADIO PUBLICATIONS	COMMUNICATIONS-
KEY		T-9 46.60	TAB PUBLICATIONS	WORLD
OMEGA-T	SUPEREX	W-51 825.00	COWAN PUBLICATIONS	WORLD RADIO TV-
TE701 34.95	APS II 29.95	W-67 1798.00	CALLBOOK PUBLICATIONS	HANDBOOK
TE702 44.95	COM-2 19.95	37TC 241.00	SAMS PUBLICATIONS	
2000C 250.00	TRI-EX	MW-50 535.00	PRICE AND AVAILABILITY SUBJECT TO	MISC. ITEMS:
HV-3 169.90	CDR-9 11.00	FB-9 15.00	CHANGE WITHOUT NOTICE * * * * *	TIMES FM-8 COAX
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VISTA XR 10AMP 12V REG PS 64.95 CASH	SHURE 444 MIC. (DESK) 33.95 CASH
	WILSON WR-1000 HD ROTATOR 349.00 CASH

# M-TRON Closeout SPECIALS

AMECO OCMW-2 CODE OSC 14.50	CUSHCRAFT 20% OFF CLOSE OUT SALE ON THE FOLLOWING
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A/S RUBBER DUCK "TNC" CONN. 13.50	A-449-11 REG. 27.95 ARX-2K REG. 13.95
B&W AT-200 2M ANT. TUNER 18.95	A-449VPK REG. 23.95 AR-450 REG. 21.95
DENTRON W-2 WATTMETER 84.50	DRAKE 5NB 69.00
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DRAKE SSR-1 SWL RECEIVER 249.00	FRANKLIN 8" 24HR CLOCK 17.50
DRAKE SSR-1 DC CABLE 3.99	FRANKLIN 12" 24HR CLOCK 19.95
DRAKE TR4CW W/RIT TCVR 669.00	FRANKLIN 12" CORDLESS 24 HR CLOCK 22.50
DRAKE 34PNB (TR4CNOISE BL.) 88.00	HUSTLER GCM-1 GUTTER CLIP 5.95
DRAKE 1524 FS4 SPLIT KIT 8.80	HY-GAIN 3806 HT 2M FM 159.95 CASH
DRAKE SPR-4 RECEIVER 599.00	KLM 2M & 451 MHZ AMPS (IN STOCK) 15% OFF CASH
DRAKE SPR-4 XTAL KITS:	MFJ CPO 555 CODE OSC. 14.50 TURNER PLUS 2 34.95
RTTY 18.00 AERO 31.95	MFJ 40T QRP XMR 23.95 TEN-TEC 207 14.00
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# Spring Housecleaning Closeouts - Cash + Carry

All Specials + Closeouts are limited to stock on hand



## EAST BAY RADIO CLUB

MEETING MINUTES: 14 APRIL 1978

Pres. Lyman Wiltshire, WB6SMY, opened the meeting at 1930 (our new meeting time) and Lester Bodin, W6JKY, collected delinquent dues and also claimed the on-time door prize.

A correction to last month's minutes: New General Class Betty Baldo should have been WB6WNZ and new Advanced Chris should have been WB6OGE.

Club Jackets: Sid Lagorio, WA6JGZ, presented a plan to purchase club jackets for interested members. Sid contacted several suppliers and came up with a very nice proposal for an unlined canary yellow cotton/polyester jacket with pockets. Name and call sign would be embroidered on the front and a royal blue silkscreen emblem on the back would have:

EAST BAY

AMATEUR RADIO

### CLUB

(It was moved, seconded, and unanimously agreed to change the club name from EBRC to EBARC.

Jackets would come in small, medium, and large sizes and would cost \$20+tax. The supplier needs a minimum order of 12 and Sid was to investigate the additional cost of lined jackets, if possible. More info should be available at our 12 May meeting.

Great news from the advertising staff of the Hymer Herald (also known as the Blown Fuse). Doug Murray at M-Tron in Oakland is going to advertise in the club mailing and pay \$20 to cover the cost of our materials and postage.

Steve Dodge, K6ZR, will add the names of the people in his new Yachtsmans radio club to the mailing list. This club is the result of Steve's classes at the Berkeley Marina. Attendance has been good and stable according to Steve.

This should help to clean up our airspace: As of 1 May, FCC will have direct policing enforcement rights rather than having to work through local law enforcement agencies.

Report from the office of the treasurer: \$807.84; up \$79 from last report.

Lyman and Steve are still in the throws of finding a home for the transportainer.

Field Day: The management of Golden Gate Fields approved use of the North parking lot for our site and will allow fires once a permit has been obtained from the AFD. Joe Lee, WB6DOB, plans to get a crew together to check out the antennas near the end of May. Les Bodin, Lyman Wiltshire, and John Rodosevich will provide AC power.

Mickey Khaler and our old friend Dave Bacom, WA6TPJ, were visitors. Congratulations to a new General, Kurt Mansfield, WD6ENH, son of Jack WA6REU.

A big welcome to our newest member, David Russell, WD6FWI. David is in the EBARC class and was given a license manual to help him in his Amateur Radio endeavors. David also won a soldering iron on the first ticket. Other lucky ticket holders: Bob Connely, WA6DQO-Battery Powered Etcher; Sid Lagorio-Screw Driver set; Carl Clark, WA6KTL-Tuner cleaner.

Featuring the Ten-Tec Century 21 transceiver from M-Tron, Rex Brown, WA6GYC, gave a good summary of this neat rig. Specifications: 70 watt, all solid state, CW only w/full break in keying (no VOX keying delay), full range VFO w/optional digital readout, automatic tune & loading! Also talked a little about antennas & baluns.

Bill Stevens, K6ZM, Pacific Coast Director of ARRL, will be with us next meeting to talk about league activities and services.

--John Rodosevich, WA6ZYE, Sec'

PLEASE REMEMBER THAT ALL MEETINGS WILL NOW START AT 7:30p.m. SO THAT WE WILL NOT BE PRESSED FOR TIME AT THE CLOSE OF THE MEETINGS. PLEASE BE PROMPT SO THAT WE CAN START ON TIME!



HRR NOTES (CONTINUED):

equipment to escape FCC's controls on such items and it should be on the market in May.

More Technical Details on the new "technology" are provided in an article by K5JB in the April CORA Emitter and Collector, along with details on a proposal that 10.4-10.5 GHz be designated a "Class F" CB band specifically for radar jammers!

Whatever The Result of all this, Amateurs seem likely (as with the 10-meter linear ban) to be the losers, in the end. Even the radar detector manufacturers oppose the jammers, according to Communications Retailing, on the grounds that they're almost certain to generate legal sanctions that would include detectors.

THE ISSUE OF FUTURE club, RACES and military recreation station licensing and callsigns is covered by an additional Notice of Proposed Rule Making on Docket 21135. Formal comments on this NPRM must be filed with the FCC by June 2.

24,000 AMATEUR LICENSE applications hit Gettysburg in March, the highest number ever for that Month.

FCC'S WARC 79 6th, 7th, and 8th Notices of Inquiry will be considered by the Commissioners at a closed door hearing. Inside bets are that the Amateur frequencies proposed in the 8th NOI will trim the 160- and 80-meter bands in behalf of the broadcasters, just as was proposed in Canada, though probably not as severely. Another new band at either 10 or 18MHz will probably be offered "in exchange" for the lower band losses, while 40 meters and up will be likely left alone or may even see slight improvements.

\*\*\*\*\*

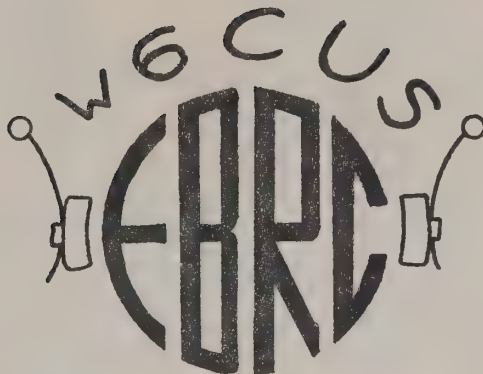
We need to know how many people will be able to attend Field Day this year. (Field Day is the weekend of June 24-25). Please tell Lyman Wiltshire if you can bring campers or trailers, radio and generating equipment, etc. Above all, COME! Last year we had a fine Field Day; let's see if we can make this one even better.

DECIBEL TABLE FOR POWER AND VOLTAGE RATIOS

DB	POWER RATIO	VOLTAGE RATIO
1.0	1.26	1.12
1.2	1.32	1.15
1.4	1.38	1.17
1.6	1.44	1.20
1.8	1.51	1.23
2.0	1.58	1.26
2.2	1.66	1.29
2.4	1.74	1.32
2.6	1.82	1.35
2.8	1.91	1.38
3.0	1.99	1.41
3.2	2.09	1.44
3.4	2.19	1.48
3.6	2.29	1.51
3.8	2.40	1.55
4.0	2.51	1.58
4.2	2.63	1.62
4.4	2.75	1.66
4.6	2.88	1.70
4.8	3.02	1.74
5.0	3.16	1.78
5.2	3.31	1.82
5.4	3.47	1.86
5.6	3.63	1.91
5.8	3.80	1.96
6.0	3.98	1.99
6.2	4.17	2.04
6.4	4.36	2.09
6.6	4.57	2.14
6.8	4.79	2.19
7.0	5.01	2.24
7.2	5.25	2.29
7.4	5.50	2.34
7.6	5.75	2.40
7.8	6.03	2.46
8.0	6.31	2.51
8.2	6.61	2.57
8.4	6.92	2.63
8.6	7.24	2.69
8.8	7.59	2.75
9.0	7.94	2.81
9.2	8.32	2.88
9.4	8.71	2.95
9.6	9.12	3.02
9.8	9.55	3.09
10.0	10.00	3.16
20.0	100.00	10.00
30.0	1000.00	31.60
40.0	10,000.00	100.00
50.0	100,000.00	316.00

\*May be used only when input and output impedances are equal. (This chart is to be used in conjunction with the series on the decibel which concluded last month. End of a series.)





# THE BLOWN FUSE

EAST BAY RADIO CLUB, 5601 Doremus Ave., Richmond, CA., 94805

The EAST BAY RADIO CLUB meets the second Friday of each month at the Albany Community Center, 1123 8th St., Albany, Ca., at 8 P.M.

## OFFICERS:

PRESIDENT:	LYMAN WILTSHIRE,	WB6SMY	524-2690
1st VICE:	STEVE DODGE,	K6ZR	233-5833
2nd VICE:	BOB CONLEY,	WA6DQO	525-5730
3rd VICE:	JOE LEE,	WB6DOB	758-0729
SECRETARY:	JOHN RODOSEVICH,	WA6ZYE	222-2720
TREASURER:	LES BODIN,	W6JKY	632-3707
EDITOR :	JONATHAN HYMER,	WB6FJC	935-5640

Want to put something in the paper?  
The Blown Fuse always welcomes articles, personals, want-ads, etc.  
Please send your articles to 179 Kendall Road, Walnut Creek, CA 94595, or, if they're short, phone 935-5640 after 4. Deadline is two weeks before meeting date.  
Come on!!! Get it in!!!

Jonathan Hymer, WB6FJC  
East Bay Radio Club  
179 Kendall Road  
Walnut Creek, CA 94595

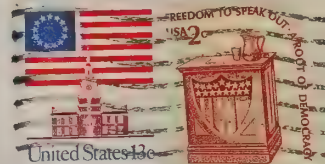
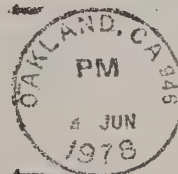
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Newington, CT 06111

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San Jose, CA 95124  
408-371-3819

VICE DIRECTOR  
Robert C. Smithwick, W6JZU  
516 Remington Drive  
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415-736-4366

EAST BAY SCM  
Robert Vallio, W6RGG  
18655 Sheffield Rd.  
Castro Valley, CA 94546  
415-537-6704



Walnut Creek, CA 94595



JUNE, 1978

THE AMATEUR CALL SIGN SYSTEM:

By Jonathan Hymer, WB6FJC

Unless you have been hiding out somewhere on a glacier in Antarctica, chances are that you have heard that the Amateur call-sign issuing system has been completely changed. Understanding how the new system works, however, may be a completely different matter. The following is a primer on how the new system works.

The FCC has instituted this new system primarily for the purpose of saving work in issuing new calls. Because of this, calls will be issued in strict sequence only, and NO REQUESTS FOR SPECIFIC CALL SIGNS will be honored UNDER ANY CIRCUMSTANCES.

The system, as it is presently set up, applies to these four groups of licensees:

- 1) Newly licensed operators.
- 2) Amateur Extra Class licensees.
- 3) Licensees who upgrade.
- 4) Licensees who change their mailing addresses to new call areas.

This means that operators who will receive their first license will get a call according to the new system without any choice. Likewise, operators who upgrade their licenses will be able to get a new call IF THEY WISH. Any operator who upgrades must specifically request that s/he wants a new call; otherwise the call will remain the same.

The new system has the available call signs broken into these groups:

Group A contains all 1x2, most 2x1, and most 'A' prefixed 2x2 call signs.

Group B contains most 'K', 'N' and 'W' prefixed call signs.

Group C contains all 1x3 call signs.

Group D contains most 'K' and 'W' prefixed 2x3 call signs.

Group X contains 'WC', 'WK', 'WM', 'WR' and 'WT' prefixed 2x3 call signs.

Amateur Extra Class licensees may request new calls according to the following schedule:

PRESENTLY

HOLDS

Group B

Group C

Group D

Group A 2x2

beginning with 'AA'\*

MAY

REQUEST

Group A

Group B or A

Group C, B or A

change within group A

\*This request must be received by FCC by 1 October 1978, and a 2x2 will be issued in exchange for the 2x2 'AA' call.

Any licensee who upgrades may request a new call sign if desired. If no request is made, the station will retain its old call sign. New calls in this category will be issued as follows:

Upgrades to Extra, may request Group A if presently holding Group B; May request Group A or B, if presently holding Group C; May request Group A, B, or C, if presently holding Group D.

Upgrades to Advanced, may request Group B, if now holding Group C; may request group C or B, if now holding group D.

Upgrades to General and Technician, may only request Group C if presently holding group D.

A newly licensed operator will not have any choice of format. Calls in this category will be issued according to this schedule:

Amateur Extra	--	Group A
Advanced	--	Group B
General and Tech	--	Group C
Novice	--	Group D

Remember, this only applies if an operator does NOT presently hold any station call sign; otherwise, requests will be handled according to the upgrade schedule above.

In the future, it is expected that licensed operators will be able to request new calls without having to upgrade, but for now, only Extras and licensees upgrading have this privilege.

Well, that's the new system, for what it's worth. Hopefully, this has cleared up some confusion.



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AMECO		B&W		DENTRON		DRAKE		HY-GAIN	
PLF-2	49.95	334A	175.	DTR-2000L	1099.	UV3 I44	595.	TH3JR I44.50	
PT-2	69.95	374	215.	MLA-2500	899.	UV3 DU0	696.	HY QUAD	219.95
				MLA-1200	399.	UV3 TRI	795.	DB 10-15	149.95
ATLAS		AMELCO		AC-1200	159.	AC4	150.	333	289.95
350XL	1195.	SWR MTR	14.95	DC-1200	199.	PS3	89.	105BA	119.95
350PS	229.			MT-3000A	349.	PS7	166.	155BA	169.95
305VFO	155.	BENCHER		MT-2000A	199.	L4B	995.	205BA	289.95
311OSC	135.	BY-1	39.95	160-10AT	129.	MN4C	165.	204BA	189.95
D6XL	229.	BY-2	49.95	JR. MON.	79.	MN-7	165.	204MK5	99.95
DMK-XL	65.			W-2	99.	MN-2000	250.	12AVQ	37.95
MT-1	29.	CDR				WH-7	89.	14AVQ	67.00
DL-200	15.	SEE SPECIALS*		DRAKE		W-4	79.	18AVTWB	97.00
210X	765.			DSR-2	3200.	1525EM	49.	TH3MK3	199.95
210X/NB	810.	CURTIS		R-4C	699.	TV-3300LP	26.	TH6DXX	249.95
215X	765.	EK-430	124.95	4NB	74.			TH2MK3	139.95
215X/NB	810.	IK-440A	224.95	TR-7	886.	HUSTLER/NEWT.			
220CS	155.	8043	14.95	DR-7	186.	4BTB	99.	ICOM	
200PS	105.	8043-3	24.95	TR/DR-7	1072.	MO1 & 2	22.	IC-280 P.T.B.A.	
DD6-C	235.	8043-4	54.95	AUX-7	38.	RM & RM-S		IC-30A	399.
VX-5	60.			RRM-7	5.	RESONATORS		IC-202	259.
PC-120	60.	CUSHCRAFT		RTM-7	5.			IC-211	749.
DMK	55.	ARX-2	32.95	RV-7	156.	HY-GAIN		IC-215	229.
		A14410T	34.95	FA-7	24.	18HT	279.95	IC-245	499.
B&W		A43220T	49.95	NB-7	74.	18V	24.95	IC-245SSB	599.
592	16.50	A14TMB	15.95	FILTERS ea.	49.	203	12.95	IC-502	259.
375	18.95			T4XC	699.	205	16.95		
376	18.95	DENTRON		TR-33C	229.	208	19.95	K.E ELECTRONICS	
595	18.50	DTR-1	P.T.B.A.			214	26.95	KLM ELECTRONICS	
								LARSEN VHF ANT.	

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Doug-W6HVN, Cal-WB6MPS, Rex-WA6GYC, Jim-N6IG

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108RA 79.95	404C 30.60	544 DIG. 869.	RADIO "	SUPERFLEX COAX
109R 149.95		570 C/21 299.	TAB "	8 COND. ROTOR-
	SST	574 DIG 399.	COWAN "	CABLE
NYE	T-1 29.95		CALLBOOK "	ANTENNA WIRE
PATCH 36.50	T-2 49.95	TRI-EX	SAMS "	TIMES FM-8 COAX
CPO 12.50	T-3 19.95	T-9 10FT 46.	AMECO "	
KEY 9.25		W-51 825.	MAGAZINES	TEPABCO
	SUPEREX	W-67 1798.	QST	QSL HOLDERS
OMEGA-T	APS-2 29.45	37TC 241.	CQ	
TE701 34.95	COM-2 19.95	MW-50 535.	73	AVA COAX CON.
TE702 44.95		FB-9 15.	HAM RADIO	PL-259
2000C 250.	CALPICO	TP-9 15.	HAM RADIO HOR.	ADAPTERS (RG-58)
HV-3 169.90	8FT X 1/2"	CDR-9 11.	WORLD RADIO NEWS	PL-258
	GR. ROD 6.95	TM-358 1991.	COMMUNICATIONS-	DOUB. MALES
DIGITAL		TM-370C 4716.	WORLD	T- CONNECTORS
CLOCK	TEN-TEC	SM-40 352.	WORLD RADIO TV-	
24 HR 34.95	509 ARG 369.		HANDBOOK	

\* \* \* \* \*

## M-Tron Specials of the Month

CUSHCRAFT OSCAR PACKAGE	CORNELL-DUBILIER ANTENNA ROTATORS
10EL 2M TWIST, 20EL 432 TWIST	CD-44 \$105. HAM-III \$129. T-X \$345.
A-14TMB STACK. BKT. ***** \$84.95	
	GOLDLINE 50 OHM KW KANTENNA \$24.95
24HR DIGITAL CLOCK	
NICE LOOKING- WALNUT ENDS \$29.95	ICOM-215 2M FM PORTABLE \$199.00
NPC 13.6VDC REGULATED POWER SUPPLIES	KLM KR-400 AZIMUTH ROTOR \$109.95
104A \$39.95, 108RA \$59.95, 109R \$129.95	SHURE 444 DESK MIKE \$33.95

\* \* \* \* \*

## M-Tron Spring Housecleaning Closeouts

AMECO OCMW-2 CODE OSC \$14.50	CUSHCRAFT ** 20% OFF REG PRICE ON FOLLOWING:
A/S RUBBER DUCK "F" CON\$8.50	A-147-20T, A-144-20T, A-430-11, A449VPK, A147-VPK
A/S M-206 MOB. MT BKT. \$7.95	AR-220, ARX-220, ARX-2K, AR-450
A/S RUBBER DUCK "TNC" \$13.50	KLM 2M & 450 AMPL. (IN STOCK) 15% OFF
B&W AT-200 2M ANT TNR \$18.95	DRAKE 5NB \$69.00 RF ENGR DIGITAL
DENTRON W-2 WATTMETER \$84.50	DRAKE SCC-4 \$19.00 READOUT/R-4C \$149.
DRAKE SSR-1 SWL REC. \$249.00	FRANKLIN 8" 24HR CLOCK \$17.50 TEN-TEC 242 \$145.
DRAKE TR4CW TCVR/RIT \$669.00	" 12" " " \$19.00 TEN-TEC 207 \$11.95
DRAKE 34PNB N.B. \$88.00	" 12" " CORDLESS\$22.50 TEN-TEC KR1A\$28.
DRAKE SPR-4 SWL REC. \$599.00	WILSON WR-1000 ROTATOR\$349.00 TEN-TEC KR-2A\$13.50

\* \* \* \* \*

## M-Tron Used Equipment List

AMECO TX-62 XMTR 2M \$79.	NATIONAL NCX-3 \$149.	SWAN 117XC AC P.S. \$95.
HEATH HW-18 \$89.	COLLINS 351D-2 \$49.	HEATH SB-644 VFO \$115.
SBE SB-34 SSB TCVR \$239.	DRAKE TR-4 MOB.MT. \$5.	COLLINS RACK MOUNT \$50.
SWAN SS-200-16B \$439.	EICO 720 XMTR \$40.	ICOM IC-202 2M SSB\$169.
SWAN PS-20 \$95.	DRAKE TR-4C SSB \$449.	TURNER H-500 MIC \$39.
GLOBE SIDEBANDER \$60.	DRAKE DC-4 P.S. \$119.	TEN-TEC KR-5A KEYER\$25.
WRL-755A VFO \$60.	SWAN 250C 6M SSB \$229.	SWAN 14A DC MOD. \$39.
KLM PA 10-70B 2M AMP \$95.	SWAN NB-500 BLKR \$39.	DRAKE R-4A REC. \$289.

TRANSMITTERS, TRANSCEIVERS & AMPLIFIERS SOLD TO LICENSED AMATEURS ONLY \* \* \*

ALL SPECIALS & CLOSEOUTS ARE CASH AND CARRY-LIMITED TO STOCK ON HAND ONLY \* \* \*  
PRICE AND AVAILABILITY OF ALL ITEMS SUBJECT TO CHANGE WITHOUT NOTICE-THANK YOU

## MEETING MINUTES:

MAY 12, 1978

President Lyman Wiltshire opened the meeting at 1935 hours. On-time door prize went to Chris Baldo, WB6OGE--a miniature screwdriver set. Lyman mentioned that the treasury is in such good shape that we can expect some real nice prizes next month.

Field Day is June 24/25. We'll set up in the North Lot of Golden Gate Fields by the bay. A motion to provide a portable toilet carried unanimously. Anyone who would like to help with antennas should contact Joe Lee or Lyman. Twelve volt DC and 110 VAC power will be available. Come to the June meeting for all the details.

Treasurer's report: Same as last month. Paid your dues? See Les Bodin at our next meeting.

Visitors included our guest speaker, Bill Stevens, W6ZM, Director of the ARRL, Pacific Division; Bob (Smitty) Smithwick, W6ZJU, ARRL affiliate; Rich Murray, President of American College of Electronics Club; Mel Reuther, W6WOF; Jim Lisson, WA2CED; Bill McCarty, WD6ETU.

Jim Gale was there with his nifty new call, N6XP, and his charming wife, Ilene, WA6IBT.

"To our friend, Jonathan Hymer, WB6FJC, for outstanding service as Editor of the Blown Fuse--East Bay Amateur Radio Club--May 1978" are the words on a plaque presented to our Editor for two years now. We do appreciate Jonathan's dedicated service to the club.

Our ARRL Director, Bill Stevens, W6ZM (Sam Houston's old call), brought some prize material: 50 years of ARRL won by John Duarte; Hints & Kinks won by Richard Murray; VHF Manual won by "Lew" Lewellen, WA6JSO. Also we had prizes for Bill McCarty, WD6ETU, crimper; John Duarte--soldering iron; Jack Joyce, WD6BJA, pliers.

What did Bill Stevens have to say?

- ARRL can give our club a mailing label for every ham in the area.
- \$.50 to the EBARC for every League membership we turn in.
- FCC soon to give credit for parts of exams which you pass.
- There's a new student workbook with ARRL's Tune In The World--\$7.50.

- New General and Advanced tests are being developed for FCC by the same person who did the new ARRL License Manual.
- ARRL will gladly replace any bad practice tapes.
- For FCC license/application inquiries call (717)-334-7631.
- The new call assignment system was explained.
- A small number of people in a very small amount of space carry a very large load at headquarters, so have patience (300 awards for WAC/DXCC in processing right now).
- You can get a new call sign if you are upgrading or changing call areas (no special requests).
- FCC fees will be back.
- Novice licenses are now renewable and are good for five years.
- 3000 call sign mistakes made recently by the computer.
- Twenty-five (25) percent of hams are CB'ers.
- A pitch was made for the ARRL-endorsed theft insurance:
  - \*You assign the replacement value of insured items.
  - \*No evidence of forcible entry is required with claims.
- Bill pointed out that Bob Vallio is our area SCM.
- Smitty Smithwick presented details of the most recent FCC/WARC proposal regarding frequency allocations.
- The proposal is in the June QST.
- Final comments accepted to June 30.
- WARC conference allocations will be effective through the year 2000.
- New bands proposed at 10,18,25MHz.
- 900 to 928MHz satellite band proposed.
- 40 and 15 meter band changes.
- No 160 to 190 KHz band proposal.
- Top 50 KHz of 80M band to be shared with broadcasters.
- 1605 to 1800 KHz to broadcast band.
- International 10KHz emergency slot on all ham bands.
- One U.S. vote at WARC!

The meeting was concluded at 2140 hours.

--John Rodosevich, WA6ZYE, Sec't'y

WE WILL BE DISCUSSING FIELD DAY PREPARATIONS AT THE NEXT MEETING. IF YOU ARE PLANNING TO ATTEND FIELD DAY BE SURE TO COME--STARTS AT 7:30.



## LETTER TO THE EDITOR:

In defense of lo-fers and in deference to ARRL, I am happy to see that FCC dropped a proposal to make the 160 to 190 KHz slot into a ham band.

Subpart D, paragraph 15.112 of the FCC regulations presently allows anyone to communicate in any mode between 160 and 190 KHz as long as:

- 1) Power does not exceed one watt;
- 2) Spurious emissions are suppressed 20dB (ah yes, remember the decibel);
- 3) antenna plus transmission line does not exceed 15 meters (50 feet).

Since the FAA decommissioned their 190 KHz Consolan system a year ago, interest has grown in this band, the Experimenter's Band. Low power, simple transmitters, elaborate receivers, huge receiving antennae, ingeneous transmitting antennae, and transverters are part of the home-brew band.

Kilogallon commercial gear would change all this. Three or four QSO's would occupy the entire 30KHz bandwidth. Complaints would bring adverse pressures on the Amateur community from the broadcast band which encompasses the third through tenth harmonics of the 160 to 190 KHz band.

Clearly the band down below belongs to everybody and no purpose would be served by restricting it to only licensed amateurs.

JOHN RODOSEVICH, WA6ZYE

\*\*\*\*\*

## FOR SALE:

Drake TR-4/PS + AC power supply--\$450. Includes Speaker box, AC power supply, used mike, hand key, and inverted vee.

Henry 2KD linear amplifier with power supply and stand. Has problems. Wired for 220 VAC. As is \$400.

Call Rosemary McClare:  
529-0610

## NEW NET?

Joe Lee, WB6DOB, would like to find out from the Club if anyone would like to start a net on 10 meters or 15 meters, possibly on Wednesday evenings around 8. If anyone is interested, let him know at the next meeting.

## NEXT MEETING:

The next regular meeting of EBARC will be devoted to preparations for the upcoming Field Day event on June 24-25. If you are planning to attend Field Day this year, be sure to attend the next meeting, so that you will receive all of the details.

We will also need to know how many campers will be able to be at Field Day this year. If you have a camper that will be there, be sure to let Lyman know at the next meeting.

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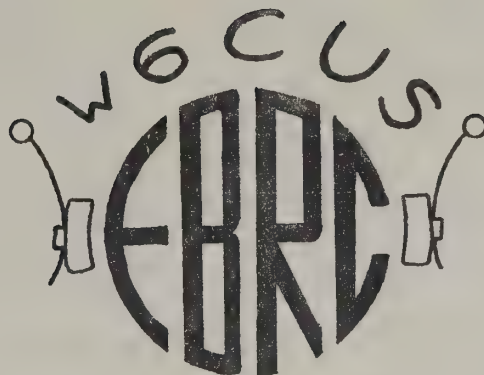
## DONATION:

A marine radio suitable for 10 - 80 meter operation has been donated to the club through Chris Baldo. It is very clean and believed to be fully operational for AM phone as is, and with modifications, it can be suitable for CW. It has a 50 watt output. It needs a basic power supply; a standard power supply can be made up easily. The radio will be on display at the next meeting. It goes to the person with the best offer, with the proceeds to go to the club.

- o o O O o -

## CLASSES FINISHED:

The Novice and Technician classes concluded with about 10 novices qualified and waiting for their written exams. Bill McCarty, WD6ETU, went to San Francisco and got his Technician license. Congratulations, Bill!



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EDITOR :	JONATHAN HYMER,	WB6FJC	935-5640

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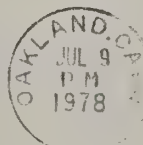
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EAST BAY SCM  
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18655 Sheffield Rd.  
Castro Valley, CA 94546  
415-537-6704



Marie Pool - W6CJ1  
7315 Eureka -  
El Cerrito, Ca. 94520



MEETING MINUTES:9 JUNE 78

President Lyman Wiltshire opened the meeting at 1940 (7:40) and noted that the taxpayer revolt has resulted in the imposition of a \$25/night levy on the Club for use of the Albany Community Center. As an interim measure then, the East Bay Amateur Radio Club will meet at locations to be determined by the Picnic Committee. Telden, San Pablo Reservoir, and Alvarado Park were suggested. Steve Dodge and Lyman to head up the interim Picnic Committee which will select an appropriate meeting site. Charlie, W6EJA, will invite the Richmond club to our July picnic. Families invited. See Bulletin for details on next two picnic meetings. (It was unanimously agreed that Jonathan should have a month off--yeah Jonathan!)

Stop! Apology, mistake, correction to last month's meeting minutes--whereas it was incorrectly reported that Jim Gale had new call N6XP and wife, Ilene, it must be clarified that, heretofore and now, Ilene and WA6FDX actually belong to Jim Gale until death do they part and Grant Calhoun is the real N6XP. Sorry.

And wouldn't you know it--the club bean counter and Director of Financial Affairs, Les Bodin, W6JKY, held the winning "on time" ticket for a universal screwdriver. Other winners:

Carl Clark, WA6KTL, magnetic driver  
David Russell (again), WD6FWI, miniature drivers  
Chris Baldo, WB6OGE, continuity tester  
Don Dunn, K6BJJ, 4-way driver.

Steve Dodge graduated another radio class and is waiting for 10 Novice tests to arrive. Passed one Tech so far and thanked Lew for his great help. (Much thanks to Steve who has helped so many into Amateur Radio--myself included.)

Field Day: The subject of the evening was Field Day. North Parking Lot, Golden Gate Fields, between the cyclone fence and the beach--enter from Buchanan Street or Gilman (Fwy exit). Time: we'll begin to set up antennae, ground, generators, etc. from 8:00 am on. Contest time/date: 11:00 a.m. June 24 to 2:00 p.m. June 25.

It occurred to me that you will read this after Field Day. Hope you were there and I'm sure we had a great time. Jonathan will surely have an experience to relate. Les, Lyman, and myself were to bring 110V power; Joe Lee--antennae; Jonathan--press.

Betty Baldo's cousin Joe Higgins donated his old Marine transceiver to the club--a Skipper 50 watt, 4 channel, xtal-controlled radio with 3 807 finals which will operate on 160/80M and probably 40M. The vibrator/dynamotor is built for 12 volt input. \$25 suggested minimum bid donation to the club.

For one dollar, Jonathan Hymer snapped up a 10/15/20/40/80M vfo-controlled transmitter.

Chris Baldo stole a brand new Heathkit 1kw cantenna dummy load w/transformer oil for \$15.

Guests were Clay Thornton from Pinole and Dave Haislip, SDG, graduate of El Cerrito High.

Sid Lagorio is reported having a fine time at his other home in Hawaii.

Jonathan Hymer will send a dozen SASE for new member possibilities to Worldradio News.

--John Rodosevich, WA6ZYE, Secretary

- o o o o -

NEXT MEETING:

The next regular EBARC meeting will be a picnic at Live Oak park in Berkeley on SATURDAY, (not Friday) July 15, from 12:00 to 4:00 p.m. Bring your own food; coffee and soft drinks will be provided. Directions are printed elsewhere in this issue. The announcement of where the August meeting will be held will be made at the next meeting.

# MOTRON



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## New Equipment and Accessories

AMECO		B&W		DENTRON		DRAKE		HY-GAIN	
PLF-2	49.95	334A	175.	DTR-2000L	1099.	UV3 144	595.	TH3JR	144.50
PT-2	69.95	374	215.	MLA-2500	899.	UV3 DUO	695.	214	26.95
				MLA-1200	399.	UV3 TRI	795.	HY-QUAD	219.95
ATLAS		AMELCO		AC-1200	159.	AC4	150.	DB10/15	149.95
350XL	1195.	SWR MTR	14.95	DC-1200	199.	PS3	89.	333	289.95
350PS	229.			MT-3000A	349.	PS7	166.	105BA	119.95
305VFO	155.	BENCHER		MT-2000A	199.	L4B	995.	155BA	169.95
311OSC	135.	BY-1	39.95	160-10T	129.	MN4C	165.	205BA	289.95
DD6XL	229.	BY-2	49.95	JR-MONITOR	79.	MN-7	165.	204BA	189.95
DMK-XL	65.			W-2	99.	MN-2000	250.	204MK5	99.95
MT-1	29.	CDR ROTATORS				WH-7	89.	12AVQ	37.95
DL-200	15.	SEE SPECIALS*		DRAKE		W-4	79.	14AVQ	67.00
210X	765.			DSR-2	3200.	1525EM	49.	18AVT/WB	97.00
210X/NB	810.	CURTIS		R-4C	699.	TV-3300LP	26.	TH3MK3	199.95
215X	765.	EK-430	124.95	4NB	74.	B-1000	24.	TH6DXX	249.95
215X/NB	810.	IK-440A	224.95	TR-7	886.			TH2MK3	139.95
220CS	155.	8043	14.95	DR-7	186.	HUSTLER-NEWTR.			
200PS	105.	8043-3	24.95	TR/DR7	1072.	4BTV	99.	ICOM	
DD6-C	235.	804304	54.95	AUX-7	38.	MO1 & 2	22.	IC-280	PTBA
VX-5	60.			RRM-7	5.	RM & RMS		IC-30A	399.
PC-120	60.	CUSHCRAFT		RTM-7	5.	RESONATORS		IC-202	259.
DMK	55.	ARX-2	36.95	RV-7	156.			IC-211	749.
		A144 10T	39.95	FA-7	24.	HY-GAIN		IC-215	229.
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592	16.50	A14TMB	17.95	FILTERS EA.	49.	18V	24.95	IC-502	259.
375	18.95			T4XC	699.	203	12.95	IC-701	1499.
376	18.95	DENTRON		TR-33C	229.	205	16.95	K.E. ELECTRONICS	
595	18.50	DTR-1	PTBA			208	19.95	UB80-40TDA	39.

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June '78



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404C 30.60

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570 C/21 299.  
574 DIG 399.

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W-51 825.  
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TM-370C 4716.  
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DOUB. FEM.  
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\*\*\*\*\*

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\*\*\*\*\*

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\* SEE OUR DOLLAR-A-DAY REDUCTION SPECIAL

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ALL SPECIALS & CLOSEOUTS ARE CASH AND CARRY-LIMITED TO STOCK ON HAND ONLY \*\*

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# FIELD DAY '78 THAT WAS THE WEEKEND THAT WAS...

CQ Field Day, CQ Field Day, Hello CQ Field Day..... The sounds of "CQ Field Day" echoed for twenty-four hours as the East Bay Amateur Radio Club participated in the annual event for amateur radio operators the weekend of June 24-25. Although this writer has only been to three Field Days so far, I can honestly state that the day just past has been the best and most memorable of them all.

About thirty people showed up for this year's Field Day, located in the north parking lot at Golden Gate Fields. Some people came just to see what was going on; others came to see what was going on, and decided to stay a while. Quite a few who came did some oper-



ated to operate on 80, so the long wire had to be utilized so as not to miss out on the action that Saturday night. At any rate the antennas worked out fine, and Joe even displayed his patriotism by stringing a flag on his antenna mast. (Either he was displaying patriotism or he was warning airplanes that there was a mast there!)

Mother nature provided the World's greatest ground in the form of the San Francisco Bay, and one enterprising operating crew stationed right next to the bay ran a ground wire from the rig to the bay. Good thinking! Not only was the Bay a great ground, but it provided some nice scenery--and a cool breeze--as well.

Speaking of cool breezes, the weather was nice all around--not too hot (remember 1976?) and not too cold (as in 1977). A nice, clear, blue day was also ours, and that surely contributed to the good turnout.



ating; those were the ones that stayed the longest.

Four rigs were set up and operating. Two of them were used exclusively for side band operation, one was used exclusively for CW, while the fourth was used alternately between the two modes. Phone operation was on 40, 20, 15, and 10 meters, while CW operation was on all bands.

Trailers were provided courtesy of Joe Lee, Steve Dodge, and Lyman Wiltshire. Lyman's trailer was used as the supply trailer most of the time, while Steve and Joe's trailers housed rigs and operators.

Antennas were mainly of the vertical and beam variety; however Steve had to switch to a long wire antenna Saturday evening in order to work 80 meters. The verticals were not



A good turnout and, above all, teamwork by everyone involved brought about the most successful Field Day event for EBRC in several years. Over 300 phone and CW contacts gave us a total score of over 800 points. I'm sure that is one of the best scores we've had in quite a while. I won't try to list all of the people who helped here, because I know I'll forget someone, and I don't want to offend anybody. I'm sure everyone knows those who have helped out to make this year's Field Day a success, and I hope that everybody had as much fun as I did. Now, with regards to that picture at the left, I can't remember, was it dah-dit or, er, dit-dah. Oh well!!

(Picture at left from Field Day 1976, and is courtesy of Dave Bacom, WA6TFJ.)



## NOTES FROM WORLD RADIO:

\* On 16 June 1978 the FCC implemented a new method of conducting FCC administered Amateur Radio license examinations.

Applicants who pass the code test for the class of license for which they are applying will receive credit for the code test even if the applicant fails the written portion of the examination. This code credit will be good for up to one year, and valid only at the FCC office that administered the code test.

For example, an applicant for a General Class license who passes the 13 wpm test, but fails the written portion, will receive a certificate giving him/her credit for the 13 wpm code test. During the next year he/she may return to the same FCC office and would only be required to take and pass the written portion of the examination to obtain his/her General Class license.

This code test credit program does not apply to Novice Class examinations which are administered by volunteer examiners.

\* The Commission has extended the Amateur Novice Class license term from two to five years, effective May 15 and made them renewable (Docket 20282).

The FCC said Novices would have a grace period of one year in which to renew their licenses without retesting. However, they would have to be retested if their licenses had expired more than a year earlier.

## NOTES FROM QST "LEAGUE LINES:"

\* A new series of public service announcements for broadcast radio is in preparation and should be available about the time you read this. Some of the announcements on the tape feature Joe Rudi, WA6PVA, left-fielder for the California Angels baseball team; others are by Daryl Dragon, who is the Captain of "The Captain and Tenille."

\* Old amateur receivers--those produced before 1960--have been

exempted from the ban on sales which went into effect January 1, 1978 on CB sets and on CB receivers which have not been certificated under the current rule. Dust off that old Hammerlund or Hallicrafters: it's worth money again.

## PRESIDENT'S NOTES:

Results: 91 CW QSO's+230 phone QSO's for a total of 321 total QSO's. Congrats to Joe Lee, Steve Dodge, and all the rest of the team. Thanks to the Baldos for the cookies and plums--what timing. Thanks to Muriel B. Hunter for the nice salad--I never could make salads. Thanks to Brownie for the snake oil, etc., and to Margaret Wiltshire for the Boysenberry cobbler.

Hugh Lewellen, Jim Gale, and Lester Bodin working early and Late got things rolling and stowed. We had a total of thirty participants and I didn't see anyone sitting on their haunches when we had work to do.

I hope you all had at least as much fun as I did.

The next meeting will be on July 15, a Saturday, at Live Oak Park in Berkeley. The time 1200-1600. Bring your own lunch for the picnic. We have reserved the picnic area with the fire place which has several large tables. The club will supply coffee and soft drinks and dessert. Location in Berkeley: head east on Berryman from Grove St. and you run right into it. If you come up Solano and go through the tunnel, go straight ahead (south) for four (4) blocks, then left (east) for one (1) block. The park is located between Shattuck and Walnut avenues.

We will talk you in on ACS & simplex 146.52. Members living in San Pablo, Richmond, Pinole, El Sobrante make reservations with Steve Dodge (233-5833). El Cerrito, Kensington, Albany, Berkeley, Oakland, and W.C. areas make reservations with Lyman Wiltshire (524-2690). Program: Just "talkin'" and getting acquainted with the best people of the area. --Lyman Wiltshire, WB6SMY, President.

REMEMBER, THE NEXT MEETING IS SATURDAY AFTERNOON, JULY 15, NOT FRIDAY EVENING. SEE YOU THERE!



# THE BLOWN FUSE

EAST BAY RADIO CLUB, 5601 Doremus Ave., Richmond, CA., 94805

The EAST BAY RADIO CLUB meets the second Friday of each month at the Albany Community Center, 1123 8th St., Albany, Ca., at 8 P.M.



## OFFICERS:

PRESIDENT:	LYMAN WILTSHIRE,	WB6SMY	524-2690
1st VICE:	STEVE DODGE,	K6ZR	233-5833
2nd VICE:	BOB CONLEY,	WA6DQO	525-5730
3rd VICE:	JOE LEE,	WB6DOB	758-0729
SECRETARY:	JOHN RODOSEVICH,	WA6ZYE	222-2720
TREASURER:	LES BODIN,	W6JKY	632-3707
EDITOR :	JONATHAN HYMER,	WB6FJC	935-5640

Want to put something in the paper?  
The Blown Fuse always welcomes articles, personals, want-ads, etc.  
Please send your articles to 179 Kendall Road, Walnut Creek, CA 94595, or, if they're short, phone 935-5640 after 4. Deadline is two weeks before meeting date.  
Come on!!! Get it in!!!

Jonathan Hymer, WB6FJC  
East Bay Radio Club  
179 Kendall Road  
Walnut Creek, CA 94595

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Castro Valley, CA 94546  
415-537-6704



12.31.78  
POOL, MORRIE W6CJI  
  
7315 EUREKA  
EL CERRITO, CA 94530



MEETING LOCATION:

The next regular meeting of the East Bay Amateur Radio Club will be held again at the National Guard building, located at 624 Carlson Blvd. in Richmond, near Cutting Blvd.

This is our second meeting in this building at this location. At the present time, we are negotiating for use of the building on a more permanent basis for both the meetings and for license classes. More details at the meeting. Again, we wish to thank Mr. George Pereira, WB6DTN, for arranging for the use of the building for our members.

- o o o o -

MEETING MINUTES: OCTOBER 13, 1978

Mr. S. Marti-Volkoff, Engineer-in-Charge in the San Francisco FCC office, was our very able and interesting speaker. He listed the functions of the Field Operations Bureau as inspection, investigation and licensing. Much of his talk was spent in accounts of his experiences in tracing unlicensed or illegal operators and in checking interference problems. He told the stories in a most entertaining fashion. A question-and-answer period followed, and he stayed for coffee and doughnuts and visited with club members.

At 9:05, Lyman Wiltshire called the business meeting to order. He asked the opinion of the members on whether they wished to continue to meet at the National Guard Headquarters if the Commanding Officer approves. The members present agreed unanimously.

Steve Dodge announced that he had obtained a marine low-band rig for the Club. He also reported that Canada has now established a no-code license.

To obtain a repeater list, send SASE to Joyce Ilten, WB6IHB, at P.O. Box 1863, Stockton, CA 95201

In an effort to enlist the good will of African amateurs, ARRL is sending transmitters and receivers to appropriate places in Africa and is requesting help in the project. It was moved, seconded, and passed that

the treasurer send \$50 from EBARC to ARRL to provide one set. Half that amount was collected from the members present, the balance to be taken from the treasury.

Don Dunn reported that the nominating committee has nearly completed the slate of new officers.

The meeting adjourned at 9:50.

Muriel Hunter, WD6FRP, Secretary Pro  
Tem

\*\*\*\*\*

LOOK MA! TWO ELECTIONS!

Besides the you-know-what election on Tuesday, the EBARC will also be holding its annual election and installation of officers at the November meeting. The slate of new officers will be announced at the meeting and in the next issue of the Blown Fuse. Be sure to attend to vote!

- o o o o -

NEW MEMBERS:

We wish to welcome the following as new members to EBARC:

Donald Waits WD6DLR  
1221 Everett St.  
El Cerrito, CA 94530

Bill McCarty WD6ETU  
2965 Greenwood Drive  
San Pablo, CA 94806

George Pereira WB6DTN  
1929 Sutter St.  
San Pablo, CA 94806

- o o o o -

WANTED: HW-101 Transceiver, in good working condition. Please contact with condition and price. Jonathan Hymer, WB6FJC, 935-5640.

PLEASE EXCUSE THE MULTI-COLORED NEWSLETTER THIS MONTH: THERE IS A PAPER STRIKE THAT IS AFFECTING ALL OF THE WEST COAST, AND MY SUPPLIER IS COMPLETELY OUT OF PAPER, SO I HAD TO MAKE DO WITH WHAT I HAVE, WHICH JUST HAPPENS TO BE GOLDENROD YELLOW. ...HAPPY READING!!

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350XL/DD6XL	1424.	1249.
350PS AC P.S.	229.	199.
DMK MOB MT	55.	48.
DMK-XL MOB MT	65.	57.
DL-200 DUMMY L	15.	13.
CLC LITER CABLE	14.	12.
DCC DC CABLE	14.	12.
TX-110 RECEIVER	COMING	
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CURTIS KEYERS	list	NOW
EK-430	125.	110.
EK-440A	225.	199.

DRAKE	list	NOW
MN-7 ANT TUNER	165.	155.
WH-7 WATTMETER	89.	78.
MS-7 SPEAKER	33.	31.
UV3-144 2M TCVR	595.	525.
PS-3 AC PS	90.	79.
MMK-33 TR33 MOB	13.	11.
TV300HP TVI FIL.	10.60	9.
TV75HP " "	13.25	11.
TV42LP LO PASS	14.60	12.
SL-500 TR7 FIL	49.	46.
TV3300LP LO PASS	26.60	23.
1525EM TOUCH MIC	49.95	45.
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HY-GAIN	list	NOW
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1H3MK3 TRI BEAM	219.95	185.
204BA 20M MONO	219.95	185.
153BA 15M MONO	79.95	65.
276 5FT MOB MAST	19.95	16.
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105BA 5EL 10M	119.95	95.
155BA 5EL 15M	COMING	
205BA 5EL 15M	COMING	
204MK5 CONVKIT	COMING	
14AVQ 10-40VERT	67.	55.
18AVT 10-80VERT	97.	79.
573 GUTTERCLIP	2.95	2.
274 BNC 2M DUCK	9.	7.
ICOM		
IC-280 2M TCVR	399.	379.
IC-211 2M TCVR	785.	729.
IC-701S HF TCVR	1489.	1379.
RM-2 REMOTE PROG	180.	169.
IC-245SSB TCVR	652.	589.
IC3PE AC PS	110.	89.

KE	list	NOW
UB80-40TDA		
TRAP DOUBLET		
W/BALUN	39.95	35.
T-7 PR 40M TRAPS	24.95	19.

BENCHER	list	NOW
BY-I CW PADDLE	COMING	

SUPEREX	list	NOW
APS-11 DELUXE	COMING	
COM-2 PHONES	19.95	15.
EQUIPMENT CLOSEOUTS MISC:		
DRAKE PNA0720 FILTER FOR		
R4C 5.695MHZ 2.4kc BW		
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COLLINS 75A4 6KC FILTER		
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CENTER INSULATOR		
Was 4.95		NOW 3.
SST T-3 MOBILE MATCH XFMR		
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SOOPER CLOSEOUTS	NOW
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COURSE FUNDAMENT.	2.00
SPEC.COMM. TECH.	2.00
TAB:	
NOVICE GUIDE	3.99
SLOW SCAN HBK	5.00
HAM RADIO	
SSB MANUAL	2.00
SAMS	
AMATEUR TEST/MEAS.	2.75

EQUIPMENT CLOSEOUTS	
KLM10-70CL 450 AMPL	
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was 75.95	NOW 59.
GOLDLINE KW DUMMYLOAD	
was 29.95	NOW 19.
KE SQ AUTO ELECTRONIC	
KEYER w/o paddle	
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FRANKLIN 8" 24HR CLOCK	
was 22.	NOW 14.
NEWTRONICS 4BTV 10-40	
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CALPICO GROUND RODS	
8FTx1/2" was 8.95	NOW \$6.
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8043 CHIP was 15.	NOW 11.
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8043-4 KEYER KIT	
was 55.	NOW 39.
KLM 420-470-2 COUPLER	
was 24.95	NOW 15.



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DRAKE 34PNB NOISE BLANKER  
FOR TR4CW was 100. NOW 80.

DRAKE 1524 FS4CABLE  
was 5. NOW 3.00

ELECTROSPACE HP-2 160M coil  
was 39.95 NOW 35.

ANT SPEC HM-5 PL259 2M  
DUCK was 7.50 NOW 6.00

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GE was 34.95 NOW 29.

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ARX-2 RINGO 36.95 29.

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AR-220 23.95 18.

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was 134.95 NOW 95.

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was 299.95 NOW 229.

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was 19.95 NOW 13.

SWAN (used) NB-500 NOISE  
BLANKER was 25. NOW 15

DRAKE FS4 CABLE KIT  
was 5.00 NOW 3.00

DRAKE SPR4XTAL KIT TROP  
BC was 24.50 NOW 17.

NEWTRONICS GCM-1 GUTTER  
CLAMP was 9.00 NOW 5.

LARSEN LM-150 2M MOBILE  
5/8ths was 23.85 NOW 18.

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was 10.50 NOW 8.

ANT SPEC M-206 ADJ MOB  
BRACKET was 12.59 NOW 9.

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KLM420-470-50N 450 BALUN  
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MFJ 12VDC 1A AC PS  
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- \* 800 NUMBERS COST OUR COMPETITORS MANY THOUSANDS OF \$\$\$\$\$\$\$\$ PER MONTH AND YOU PAY FOR SOMEONE ELSE'S CONVENIENCE AND IMPATIENCE. IN THE PRICE OF THE GOODS YOU BUY FROM THEM!
- \* WE PROMISE TO ANSWER ALL INQUIRIES PROMPTLY. AFTERALL, WE NEED YOUR BUSINESS, SO WE'RE NOT ABOUT TO IGNORE YOU WHEN YOU GIVE US A CHANCE TO SERVE YOU.
- \* IF YOUR DETERMINED TO MAKE THE "BIG MOTHER BELL" RICHER- CALL 736-2612(209) OTHERWISE YOU CAN FIND OUT EVERYTHING YOU NEED TO KNOW WITH A 15¢ STAMP!
- \* TRY SAVING MONEY WITH M-TRON, YOU'LL LIKE IT!
- \* ALL ITEMS FOB ALTAVILLE, CA, CALIF RES. ADD 6% SALES TAX, SHIPMENT VIA UPS, MOTOR FREIGHT, PARCEL POST INSURED - YOU CALL IT- COMPARE THE PRICE DELIVERED!
- \* ALL PRICED ITEMS LIMITED TO STOCK ON HAND AT TIME OF PRINTING (9-22-78) PRICE AND AVAILABILITY SUBJECT TO CHANGE WITHOUT NOTICE- THANK YOU!

## HAM RADIO REPORT EXTRACTS

OTO-PATCHES weren't banned by the FCC in its action on inter-connects last week, despite a rumor to that effect circulating on both coasts. What the Commission did was to re-affirm the requirement that a control operator be on duty any time a repeater is used for autopatch, incoming or outgoing. 'Automatic control' of a repeater is not permitted during autopatch operation.

A repeater during an autopatch is not a repeater, the Commission also decided, as it is not then operating as a repeater, but as a conventional Amateur station making a phone patch. As a result, the rules governing regular Amateur station operation, not the repeater rules, apply.

PHASE II - CALL SIGNS — Program goes into effect Jan. 1, providing Advanced Class licensees the opportunity to upgrade call signs when renewing licenses. After Jan. 1, an Advanced Class licensee who wishes to exchange his present call sign for a 2x2 need only check item 13(a) on his renewal form 610 and send it in during the 60 days prior to expiration. Renewals received prior to Jan. 1 will be processed with <sup>out</sup> change of call sign, so if you want to change, wait until after Jan. 1 to send in renewal.

Requests for other than group B (2x2) will not be honored, nor will Extras be permitted any choice other than a 2x1 after Jan.1.

LOS ANGELES FIRE communication rendered by amateurs involved over 100 amateur operators. Several repeaters and various 2 meter simplex channels were used. No HF operations were reported by HR. (Ed.Note: Are we prepared to render effective emergency communications? Remember the Berkeley Fire?)

SOVIET SPACE LAUNCH (Ham satellite) Rumors continue, but none confirmed by government space monitors to Oct. 26. Believed imminent

### NEW C-B BANDS CONSIDERED BY FCC.

Possible frequency allocations near 220MHz and 900 MHz were discussed at recent FCC meeting. Basic need for more frequencies has not been established so Rule Making was deferred but the procedure known as 'Notice of Inquiry' was adopted. This is a slower procedure, and will permit more discussion since it is not under the 'ex-parte' communications limitation, which limits such contacts with FCC members under 'Notice of Proposed Rule Making Procedure'.

Under this procedure, action before next year- late next year- is considered unlikely. (Ed.Note. - It is again time for all amateurs to get their ideas assembled and, individually, or through their clubs to present their ideas to FCC. Democracy only works when we do our individual share.)

### 29.40 MHz BEACON?

Anyone hearing a beacon signal, or other indication of space activity on this frequency after Oct. 23 should call AMSAT immediately. (202) 488-8649.

### THIRD PARTY TRAFFIC FLUFF.

Attempt has been made to get third party traffic going with stations in Lebanon. Check the rules before engaging in third party traffic with foreign stations. Though some nations have reciprocal arrangements, MOST of the nations of the world are off-limits for third party traffic.

"MODERN ELECTRONICS" by Cowan Pulblns., has apparently folded. May be combined with "CQ" in some manner.

KENWOOD TR-7600 to be introduced Nov. 11 at Hudson Division Convention. It will feature full 144 to 148 MHz coverage AND memory, plus an optional microprocessor control accessory, the RM-76.

### TOWERS !!!!! PROBLEMS

The negative effects of Amateur Antenna structures on neighborhood property values is the real issue in many anti-tower zoning laws and anti-antenna suits, the Personal Communications Foundation reports. It's the issue in the N6QQ case where the City of Cerritos as agreed that N6QQ's tower was structurally sound and its safety was not an issue. Professional help on the property value issue is being sought by the PCF for the N6QQ case and for others. If the N6QQ case goes against amateurs it could have a critical effect for amateurs on a national scale.

Real Estate Appraisers, realtors or others who could provide expert opinions are urged to contact Ken Wideltz WA6PPZ at PCFoundation, 10960 Wilshire Blvd. Suite 1504, Los Angeles 90024, or phone (213) 478-1749.



EBARC (Our very own East Bay Amateur Radio Club) took action last month to join the Personal Communications Foundation, which is a group of attorneys who have banded together to bring some much needed expertise to the problem of legal obstacles affecting amateur. (See item under HR EXTRACTS--the N6QQ case.) There has been a great need for accumulating, analyzing, organizing and making available to amateurs, there attorneys, judges, planning commissions, etc., etc. factual information on legal angles, possible property value effects, etc., in connection with towers, beams, masts and antennas in general, used by amateurs. Our art is dependent on having suitable antennas.

About 7000 cases have been brought, either in court or before planning boards etc. Not only is the time and money cost high, but without adequate, acceptable support data, the average ham has little chance of overcoming official or neighbors opposition. This is why your club felt it was very important to support this organization as the cost of preparing support information is running into well over \$10,000!!!

We are now a member of PCF, and have received from them a preliminary kit of information. Therefore any member who is contemplating filing for a building permit, or planning to erect a tower with nearby neighbors, or who has an application underway, or who is encountering legal pressure against his hobby at least in connection with antenna, should consult and read this file, Call Steve Dodge, K6ZR, (415)233-5833.

#### MORE HR EXTRACTS

Co-pilot of Pacific Southwest's ill fated flight 182 (San Diego crash) was an amateur (WA6TXI of LaMesa.)

DENTRON's new low-price KW linear (GLA-1000) received FCC type approval recently, will be out for Christmas. It covers 3.5 to 21 MHz and runs 1000 W, CW and 1200 W PEP - SSB. It uses 4 "D50As" --(matched 6LQ6s). It measures 5-3/8" x 11" x 11", weighs 24 lbs, and is reported priced at \$379.50.

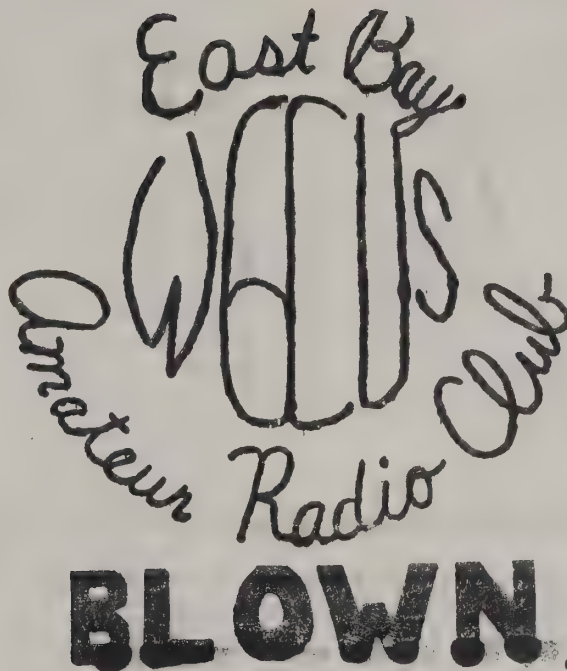
FCC BUDGETED FUNDS ran SHORT. This forced some temporary curtailment with main effect an amateurs being added delays in issue of licenses.

BIOLOGICAL EFFECTS OF RF RADIATION to be studied by a newly formed professional group, the Biomagnetics Society. Formation was announced at the International Microwave Symposium in Ottawa. Its first president is Dr. Edward Alpen, professor of medical physics at the U of C, Berkeley; For membership information write to Box 3651 Arlington, Va. 22203.

FCC - BRING PHOTOCOPY OF LICENSE WHEN RENEWING. Para. 97.47(a) of FCC Rules and Regs. requires that the original OR A PHOTOCOPY -- of the applicants license accompany every application for MODIFICATION (which includes change of call). Forgetting the copy can cause serious delay. It is preferred to send a copy. HANG ON TO YOUR original.

REPEATER LICENSING. A return to special repeater licensing has been petitioned to FCC by WB2YGI, Vice pres. of Tri-State Amateur Repeater Council. (New York, New Jersey, Connecticut) It is supported by the Technical Committee for Spectrum Management Association of Southern California, and the Illinois Repeater Council. Supporting comment will be appreciated by the group. Write to "Pete" (?) RD #1, Box 603, Boonton, New Jersey, 07005.

THE



FUSE

EAST BAY AMATEUR RADIO CLUB  
c/o Steve Dodge, K6ZR  
5601 Doremus Ave.  
Richmond, CA 94805

The EAST BAY AMATEUR RADIO CLUB  
meets the Second Friday of each  
month at the National Guard Arm-  
ory, 624 Carlson Blvd., Rich-  
mond, at 7:30 p.m.

1972 OFFICERS:

PRESIDENT:	STEVE DODGE,	K6ZR	233-5833 -
1st VICE:	CHRIS BALDO,	AI6S	653-1650
2nd VICE:	JOE LEE,	WB6DOB	758-0729
3rd VICE:	MICKEY KHALER,	WD6FYF	
SECRETARY:	MURIEL HUNTER,	WD6FRP	
TREASURER:	PETER ANNAS,		527-5804
EDITOR:	JONATHAN HYMER,	WB6FJG	935-5640

CONTRIBUTIONS!!! CONTRIBUTIONS!!!

If you have anything to share with the other members,  
send in your contributions to 179 Kendall Rd., Walnut  
Creek, 94595, or phone 935-5640 after 3. Deadline is  
the last Friday of the month. Be hearing from you!!!

Jonathan D. Hymer, WB6FJG  
East Bay Amateur Radio Club  
179 Kendall Road  
Walnut Creek, CA 94595

FIRST CLASS MAIL

AMERICAN RADIO RELAY LEAGUE, INC.  
225 Main St.  
Newington, CT 06111

PACIFIC DIVISION DIRECTOR  
William J. Stevens, W6ZM  
2074 Foxworthy Ave.  
San Jose, CA 95124  
408-371-3819

VICE DIRECTOR  
Robert C. Smithwick, W6JZU  
516 Remington Drive  
Sunnyvale, CA 94087  
415-736-4366

EAST BAY SCM  
Robert Vallio, W6RC5  
18655 Sheffield Rd.  
Castro Valley, CA 94545  
415-537-6700

Marine Pool.  
7315 Eusebia.  
El Centro, Ca 94530





CHRISTMAS PARTY:

The East Bay Amateur Radio Club's Annual December Christmas Party will be held at our next meeting at the National Guard Armory, 624 Carlson Blvd., Richmond. This is a family event so...bring the family! Everybody is welcome, and there will be refreshments and goodies for all. Bring food items if you wish; the more we have, the merrier! Also, please bring a small gift (not over two or three dollars, PLEASE) for someone of your own gender or for someone of either sex (please mark on the outside whom it is to be for). We'll expect to see you there.

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FOR SALE:

Kenwood R-599D, Kenwood T-599D, Kenwood S-599 complete station. Used 8 months, with cables, manuals, plastic covers, \$750 (together only). David Russell, WD6FWI, 845-5556

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RUSSIAN AMATEUR SATELLITE: (FROM HRR)

Russia's "RS" Satellites are up and operating after a successful launch late Thursday, October 26. According to a TASS news release on Friday, three satellites, two Amateur (dubbed "Radio-1" and "Radio-2") and one in the COSMOS scientific series (COSMOS-1045), were put into orbit at the same time.

Specifics On The Russian Amateur space effort were still vague at (Ham Radio Report's) press time, with little "hard" information as yet offered by the Russians. Beacon signals have been heard from both satellites at about 29.400 MHz, and at least one transponder was in operation throughout the weekend (Oct. 28-29), with a number of Amateurs in both North America and Europe working through it. However, since Sunday night (Oct. 29) only one beacon - apparently that of Radio-1 - has been heard.

(continued next column)

The Orbit of the RS Satellites is considerably higher than that of any of the OSCARs, about 1050 miles. The should increase range 300-400 miles, and passes should be three or four minutes longer than those of OSCAR-7. According to an RS-relayed announcement monitored in Europe on 29.380 MHz, the uplink is 145.88-145.92 MHz with a 29.36-29.40 MHz output. According to last weekend's users, 10 watts ERP puts a good signal into the RS transponder, while a 50-watt ERP signal apparently overloads and shuts it down.

RS's Period Is Slightly over 120 minutes and its equatorial inclination about 83°, resulting in an orbit-to-orbit increment of just over 30°. Orbits are opposite in direction to those of the OSCAR spacecraft, descending on evening passes and ascending in the morning for U.S. listeners.

As the day-to-day shift in both time and position is quite small, it's easy for a listener to predict future signal acquisition and loss parameters for his location after copying one or two passes. Satellabes and OSCAR Locators can be used for a fair approximation of an RS orbit if they're used backwards, placing the end of orbit point at the equatorial crossing point.

The RS Beacon Signal sends 15 words of telemetry data, followed by "RS" for Radio-1 and "RS RS" for Radio-2. "P01U C13U F42U Z41U L82U B45U H38U 001U W63U K01U U01U G01U R13U D01U S50U RS" was an RS telemetry group copied at mid-week. Analysis and interpretation of RS's telemetry is being done, so telemetry transcripts should be sent to AMSAT, Box 27, Washington, DC 20044.

The RS-1 Russian Satellite's transponder is supposed to be available 24 hours a day except for Monday and Wednesday, when it's limited to experimental and scientific use, according to an article in the October 29 Soviet Patriot, translated by K3KWJ/HB9BRQ. The Soviet paper gave extensive front-page coverage to the Russian Amateur space effort, though it omitted any reference to AMSAT's prior Amateur satellites and implied that the Russian effort was a "first." UA3DV,

(continued next page)



President Lyman Wiltshire called the meeting to order at 8:40 p.m.

He reported that, although definite arrangements have not yet been completed, the prospect is promising that the Club can continue to use the National Guard Armory for meetings, and it may be possible to plan classes too.

The speakers for the evening were Bob Vallio, W6RGG, ARRL East Bay District SCM, and Charles Breeding, K6UWR, the SEC.

Bob Vallio described his function; there are at present eight Official Observers, who listen and advise amateurs who operate incorrectly and may thus be subject to citations. He answered questions from the members.

Charles Breeding reported that his area covers Lake, Napa, Solano, Alameda, and Contra Costa counties. He has coordinators in Alameda, East Contra Costa, and Napa counties, and needs at least one for West Contra Costa (El Cerrito, particularly).

Following the coffee and doughnut break, Lyman called the business meeting to order. The nominating committee reported the slate of officers for the coming year:

President: Steve Dodge, K6ZR  
1st Vice Pres: Chris Baldo, AI6S  
2nd Vice: Joe Lee, WB6DOB  
3rd Vice: Mickey Khaler, WD6FYF  
Treas.: Peter Annas  
Secty.: Muriel Hunter, WD6FRP

All nominees were elected to office. Meeting adjourned at 9:45 p.m.  
--Muriel Hunter, WD6FRP, Sec't'y.

\*\*\*\*\*

## RUSSIAN SATELLITE (CONTINUED):

control operator at the satellites' Main Command Station, UK3ACM, was quoted as saying that though the two Russian birds share the same frequencies they're quite different in construction - without going into much detail on those differences. One significant difference he did mention was their power sources, leading (continued next column)

to the conjecture that one may have only battery power while the other includes solar panels for battery recharging.

Further Details have been provided by UK3ACM during contacts with G3IOR. Both the "RS" and "RS RS" ID are from Radio-1, the "RS RS" meaning the transponder is operating. The new birds are designed for only 3 watts ERP uplink (Russian "Technicians" are limited to 5 watts), while 8 watts or more will overload and cut it off. Once shut down it must be reactivated from the ground, perhaps explaining why it's been so unavailable from the U.S.

(Ed. note--This and the preceding paragraph were included in later issues of HR Report; therefore, the facts differ from those reported earlier in the article. This fact is because more information was learned at a later date. Normally, we don't devote so much space to an HR Report article, but because it concerns a new Amateur satellite, we thought it would be worthwhile for general reading.

Still more RS Satellite data has been provided by Soviet satellite command station RS3A to G3IOR, meeting on 29280 just after an RS pass. RS3A coordinates satellite experiments on RS's Wednesday passes, and there's a growing suspicion that RS's Saturday Sunday ON days and Wednesday experiment days are Moscow time, which is three hours ahead of GMT. RS3A provided a detailed explanation of the telemetry data, which is quite extensive, and confirmed that "RS RS" and a telemetry frame suffix letter "W" indicate the transponder is ON. RS3A is looking for telemetry reports, sent to his attention at Box 88, Moscow, U.S.S.R.  
(From Issues 226, 227, & 229 of HRR.)

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From all of the officers and myself at the East Bay Amateur Radio Club, we all want to wish you a VERY MERRY CHRISTMAS AND BEST WISHES FOR A HAPPY NEW YEAR!!!



## THE BASE STATION, INC.

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Concord, CA 94520

685-7388

## THE BASE STATION

## THE BASE STATION, INC.

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Concord, CA 94520

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DECEMBER - JANUARY SPECIALS

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1979 ARRL Handbook	\$	7.95
1979 US Callbooks		15.95
1979 DX Callbooks		14.95
Encoder Mic. w/Auto PTT		49.95
Auto-Dialer--18 memories	\$129.95	99.95

DENTRON GOODIES:

Jr. Monitor Tuner		79.50
160-10 KW Tuner	130.00	119.95
160-10 Super Tuner with watt and SWR meters		149.95
MT2000A 3kw Tuner	200.00	179.95
MT3000A 3kw w/mtr & SWR	350.00	309.50
GLA1000 New kw Linear w/PS		379.95
MLA2500B Deluxe Linear	900.00	799.00
All Band Doublet w/Lead In		24.50
W2 Dual Meter Wattmeter		99.50
Atlas 210X w/Blacker		810.00
Atlas RX110 5 Band Receiver		229.95
Alda 103 3 Band Transceiver		495.00
Wilson MK IV 2 meter port.	260.00	247.00
Tempo System 1 (As Avail.)		349.95
MFJ 901 Deluxe Tuner		59.95
MFJ 160-10 tuner for long wire		39.95
Ameco PT-2 pre amp. for Xcvr		74.95
Ameco PLF pre amp. for Rcvr		49.95
Code Keys From		6.95
Ameco 110-volt code practice osc.		22.95
K.E. 80-40 Dipole Kit		25.95
K.E. 80-40 Trap Dipole Kit		39.95
Baluns		12.95
Ten-Tec Omni D Now in stock	109.00	9.00
Ham III Heavy Duty Rotor	196.00	129.95
Alliance HD-73 Heavy Duty Rotor	155.00	119.95
DSI Freq. Counter to 500MHz		149.95
NPC 4A 12V Pwr Supply	40.00	29.95
NPC 25A 12V Pwr Supply	150.00	124.95
Tempo Dual Watt/SWR meter		47.95
Shure 444	70.75	42.50
Miller 8" Deluxe World Clock		44.95
Miller 12" Deluxe World Clock		69.95
Yaesu QTR24 World Clock		35.00
TPL 1-5w in 60-80w out 2 mtr amp.		179.00
TPL 10-20w in 50-90w out 2 meter amp.		149.00
KLM 10 in 70 out 2 meter amp.		149.95
Yaesu FT227R	285.00	269.95
Kenwood TR7400	449.00	405.00
KDK 2015R	430.00	408.50
Autek MK-1 Memory Keyer		99.95
MFJ Econo Keyer		39.95
MFJ Keyer w/built in paddle		54.95
Deluxe Keyer Paddle		29.95
LOTS OF USED GEAR TOO! OPEN WEEKNITES		
TIL 8PM UNTIL CHRISTMAS		

RAFFLE:

We'll have an extra-special raffle at the December meeting. The prizes will be:  
1st Prize--Upcoming US Callbook  
2nd Prize--Year's subscription to Worldradio.

PLUS MANY OTHER PRIZES! Just one more reason to come and BRING THE FAMILY.

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The People's Temple Tragedy in Guyana has focused attention on Amateur Radio. The Amateur bands had provided much of the communications for the ill-fated colony since its founding several years ago. Operation of the colony's stations, WB6MNH/8R1 and WB6MID/8R1, had been brought to the Commission's attention by a number of Amateurs who had observed frequent apparent rules violations in both operations and the type of traffic being handled. One California station that had handled a lot of Temple traffic, WA6DTJ, received three FCC Notices of Violation for his activities, sparking a landslide of over 2000 letters from cult members protesting "government meddling in religious activities." Another California station, WD6DVI, received a warning from Commission monitors about his cult-related operations.

Amateur Radio Enjoyed much positive media exposure as a result of the news story, as newscasters have brought in Amateurs to provide "local interest" to their coverage of the story.

Creating A Public Nuisance was the charge brought against a Compton, CA, CBER in Compton Municipal Court. In Dismissing the charge, which was the result of TVI complaints, the chief judge cited precedents established in N6QQ's long court battle, underscoring that fight's significance and its value to the Amateur Radio community. (Thanks N6AHU).  
(Articles from HR Report, #229)



## MORE ARTICLES FROM HR REPORT:

More Encouragement for Amateur Radio comes from Geneva, following Completion of a month-long WARC Special Preparatory meeting last Friday (Nov. 17). The Amateur Service was well received by the 750 or so delegates (about 40 of them Amateurs), who represented 85 nations as well as dozens of recognized organizations, including the IARU. The meeting did not address such specifics as proposed frequency bands, but rather was directed toward broad topics such as needs, contributions, and the like. The results of the meeting --over 100 assorted documents--consisted of various recommendations and "conclusions."

For the HF and VHF Bands, the preferred parts of the spectrum for various types of Amateur operations were discussed, along with the desirability of exclusive Amateur allocations. The prospects of sharing with services such as radio location, which could provide additional frequencies for Amateurs with little or no significant interference, were also considered.

For Satellite Users, one paper concluded that it's feasible to use worldwide Amateur frequencies for satellite uplinks - a welcome contrast with the position taken by much of the world that only frequencies specifically designated for the Amateur Satellite Service should be used for any satellite communications. Still another encouraging conclusion was that frequencies allocated to the Amateur Service worldwide could be used for Amateur space-to-earth communications, and that frequencies in the Amateur bands between 1215 and 10,500 MHz could be used for space-to-earth communications without placing severe limits on signal levels.

That Such Topics were discussed and adopted in this formative period without opposition is an encouraging sign that Amateur Radio will do well at next year's conference. It also indicates that the preparatory efforts made throughout the Amateur Radio world over the past few years are starting to pay off.

(Thanks to Ham Radio Report #229

Amateurs who hold other FCC licenses should be cautious when renewing that other license. Though it's not only permitted--but highly recommended--that Amateurs include a photocopy of their license rather than the original with an application, it's a citable offense for licensees in other services to do so. Part 13.70 of the Rules calls it "fraudulently making a license," and doing so is worth a "pink ticket."  
(Thanks HRR #227).

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## AN EXPANDED HAM STORE?

Since M-Tron moved out of the Bay Area a few months ago, the only retail Ham equipment store in the Greater Bay Area (with the exception of Quement in San Jose) is the Base Station in Concord. The Base Station, which handles CB as well as ham gear, is seeking to increase its product line by carrying the Kenwood and Icom line of gear. In order to do this, the Base Station must obtain an "authorized dealership" from both Kenwood and Icom before the store can start carrying these brands. To do this, the Base Station must present a petition to both Icom and Kenwood with signatures of hams who presently own (or who may purchase in the future) these brands of equipment. If you presently own, or are contemplating buying either Icom or Kenwood gear, and if you are interested in seeing a local store increase its inventory, please contact Perry Brissette, WB6ZWT, at 527-3206 in El Cerrito. If this comes to pass, it could help support a local business and also bring Amateur Radio back to a local level.

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## NEXT MEETING:

The guest for the meeting will be Mr. Glen Carlson of the Electronics Dept. of Contra Costa College. He will be the installing officer for our new officers and will give a run-down on the equipment and program that the Department has to offer. The program is available to young students as well as adults, and the program as well as the party should be very interesting.



